



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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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 the Implementation and Enhancement of the IAEA's Technical Safety Review Service** (hereinafter referred to as "event"), which had to be postponed owing to the COVID-19 pandemic and will now be held virtually via Cisco Webex from **29 November to 2 December 2021**.

The purpose of the event is to review experiences in, and lessons learned from, the implementation of recent Technical Safety Review (TSR) services, and to propose a mechanism for enhancing the services' effectiveness and efficiency considering Member States' current needs in relation to TSRs for operating and new reactors, including small modular reactors and those with innovative designs.

The attached Information Sheet provides further details of the event.

The event will be held in English.

Member States are informed that designations already received for this event will remain valid. Should Member States not have submitted any designations or wish to change their designation, they 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.

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 **24 September 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 Javier Yllera and Mr Martin Gajdos, Division of Nuclear Installation Safety, Department of Nuclear Safety and Security (Email: J.Yllera@iaea.org, M.Gajdos@iaea.org), and to the Administrative Secretary, Ms Silvia Gogany-Pavlovic (Email: S.Gogany@iaea.org). The Scientific Secretaries of the event will liaise with the participants directly concerning further arrangements, as appropriate, once the 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.

The IAEA takes no responsibility for, and the provider of the virtual meeting services has represented and warranted that the Services shall not contain, and that no end user shall receive from the software used to hold the virtual meeting, any virus, worm, trap door, back door, timer, clock, counter or other limiting routine, instruction or design, or other malicious, illicit or similar unrequested code, including surveillance software or routines which may, or is designed to, permit access by any person, or on its own, to erase, or otherwise harm or modify any data or any system, server, facility or other infrastructure of any end user (collectively, a “Disabling Code”).

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.



2021-06-04

Enclosures: Information Sheet
Participation Form (Form A)



Technical Meeting on the Implementation and Enhancement of the IAEA's Technical Safety Review Service

Virtual Event

29 November–2 December 2021

Ref. No.: EVT1904113

Information Sheet

Introduction

IAEA Technical Safety Review (TSR) services are aimed at addressing the needs of Member States at different stages of development and deployment of a nuclear power program on a broad spectrum of safety related topics in the following areas:

- Design Safety (DS);
- Generic Reactor Safety (GRS);
- Safety Requirements (SR);
- Probabilistic Safety Assessment (PSA);
- Accident Management (AM);
- Periodic Safety Review (PSR).

For more than two decades the IAEA has been providing peer review services in these areas, although under different brand names. More recently these services have been grouped under the umbrella of TSR. On the basis of the IAEA Safety Standards, the TSR services provide an independent evaluation of the plant design safety and safety assessment documentation and are adapted to address the specific needs of a requesting Member State. Case dependent, the TSR services can be conducted during the following lifetime stages: conceptual to detailed design, various pre-licensing and licensing stages, nuclear power plant construction, operation and plant modifications, including periodic safety reviews and lifetime extensions. Additionally, the TSR can address specific technical or regulatory aspects, such as the review of national safety regulations.

Objectives

The purpose of the event is to review the experiences in, and lessons learned from, the implementation of recent Technical Safety Review (TSR) services to propose a mechanism for enhancing the services' effectiveness and efficiency considering Member States' current needs in relation to TSRs for operating and new reactors, including small modular reactors and those with innovative designs.

In support of continuous improvement and response to the feedback and current needs of different Member States and to enhance the quality and effectiveness of the TSR services by considering the experience from Member States and experts that have undergone and or participated in TSRs, the IAEA is holding this Technical Meeting to identify and discuss the current needs of Member States for assistance by the IAEA in the topical areas of TSRs in relation to the safety of new reactors (including SMRs and innovative reactors) or the operating ones.

During the event the IAEA will present in detail the streamlined approach of the TSR service and the *Technical Safety Review (TSR) Service Guidelines* (IAEA Services Series No. 41). The IAEA will present also at the meeting the newly developed technical guidelines for some topical areas of TSRs, e.g. safety analysis report or periodic safety review, and the work being conducted on the analysis of applicability of IAEA Safety Standards to innovative and Small Modular Reactors (SMRs). The Technical Meeting will also provide an opportunity to regulatory bodies, operating organizations, designers or other stakeholders in Member States to present and share their experiences in evaluating SMRs and innovative reactors at a very early design stage. The insights gained from the presentations and discussions will be utilized to propose a plan for the IAEA to update the scope and methods of the TSRs.

Target Audience

This event is aimed mainly at regulatory bodies, designer organizations, operators or technical support organizations that have received TSR services or are interested in them, and at experts who have already participated or plan on participating in a TSR service.

Working Language(s)

English

Expected Outputs

Participants will be familiarized with the relevant technical aspects of the TSR service in its different subject areas as well as with the phases for preparation, implementation, reporting and a possible follow-up, which will be explained and discussed.

The review of the experience and lessons learned reported from the implementation of recent IAEA Technical Safety Review services will allow to propose mechanisms for enhancement of services' effectiveness and efficiency considering the current needs of the IAEA Member States in relation to TSRs for operating and new reactors, including SMRs and innovative reactor designs.

Topics

Presentations and discussions of the Technical Meeting are expected to cover all the six TSR technical subject areas, namely:

- Design Safety;
- Generic Reactor Safety;
- National Safety Requirements;
- Probabilistic Safety Assessment;
- Accident Management; and
- Periodic Safety Review.

National Organizations that have received TSR services or experts that have been involved in their conduct are welcome to present their experience. The meeting program will include also presentations on TSR guidelines and discussion sessions for the technical subject area to enable the participants to provide their feedback.

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 **24 September 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.

Presentations

The IAEA encourages participants to give presentations on their experience and work of their respective institutions in relation to the topical areas covered by the TSR service, which are listed above.

Participants who wish to give presentations are requested to submit a short abstract of their work. The abstract will be reviewed as part of the selection process for presentations. The abstract should be in A4 page format, should extend to no more than one page (including figures and tables) and should not exceed 300 words. It should be sent electronically to Mr Javier Yllera or Mr Martin Gajdos, the Scientific Secretaries of the event (see contact details in the IAEA Contacts Section below), not later than **20 October 2021**. Authors will be notified of the acceptance of their proposed presentations by **5 November 2021**.

IAEA Contacts

Scientific Secretary:

Mr Javier Yllera

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Co-Scientific Secretary:

Mr Martin Gajdos

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Administrative Secretary:

Ms Silvia Gogany-Pavlovic

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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.



Participation Form

Technical Meeting on the Implementation and Enhancement of the IAEA's Technical Safety Review Service

Virtual Event

29 November–2 December 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 J.Yllera@iaea.org and M.Gajdos@iaea.org, and to the Administrative Secretary S.Gogany@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: 24 September 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 <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:		