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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 Use of Periodic Safety Reviews for Long Term Operation of Nuclear Power Plants** (hereinafter referred to as "event") to be held virtually via Cisco Webex from **9 to 12 November 2021**.

The purpose of the event is to provide a forum for discussion on current challenges related to the use of periodic safety reviews for the safe long term operation of nuclear power plants, as well as to discuss and comment on a draft publication, which was produced by a committee of international experts and advisors from different countries.

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.

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 **30 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](mailto: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 Alexander Duchac, Division of Nuclear Installation Safety, Department of Nuclear Safety and Security (Email: [A.Duchac@iaea.org](mailto:A.Duchac@iaea.org)), and to the Administrative Secretary, Ms Leticia Sedlazeck (Email: [L.Sedlazeck@iaea.org](mailto:L.Sedlazeck@iaea.org)). The Scientific Secretary of the event will liaise with the participants directly concerning further arrangements, as appropriate, once the official designations have been received.

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.



2021-06-24

Enclosures: Information Sheet

Participation Form (Form A)



# **Technical Meeting on the Use of Periodic Safety Reviews for Long Term Operation of Nuclear Power Plants**

**Virtual Event**

**9–12 November 2021**

**Ref. No: EVT2100112**

## **Information Sheet**

### **Introduction**

Periodic safety review (PSR) typically addresses the period until the next periodic safety review or, where appropriate, until the end of planned operation, and consider whether there are any foreseeable circumstances that could threaten safe operation of the nuclear power plant. Continuation of operation of a nuclear power plant beyond the time frame originally anticipated for its operation (typically 30–40 years) has become a priority for many operating organizations.

Long term operation needs to be justified by safety assessment, with consideration given to the life limiting processes and features of structures, systems and components important to safety. As the typical interval between periodic safety reviews is ten years, this means that the third or fourth periodic safety review will possibly evaluate the safety factors related to long term operation, namely design, actual status of structures, systems and components, ageing and equipment qualification.

The IAEA develops new publication which intends to provide a common basis and criteria for using periodic safety review programmes in support of justification of long term operation, as well as to discuss current challenges, synergies, good practices and examples of corrective actions and safety

improvements related to the application of periodic safety reviews for justifying long term operation for nuclear power plants

The publication addresses the scope of assessment, methods and applicable criteria applied within the PSR and long-term operation programmes framework to support decision making for long term operation of nuclear power plants and to verify whether:

- The plant conforms to modern standards and practices;
- The (updated) licensing basis will be valid through the plant's intended period of operation;
- The arrangements that are in place ensure maintaining plant safety for long term operation;
- The improvements to be implemented address the safety issues that have been identified.

The new publication will apply to both new and existing nuclear power plants. It will also apply, with due judgement, to waste management facilities and spent fuel storage and handling facilities on the plant site. The method described could be adapted also for other types of reactor (e.g. small modular reactors, research reactors).

The target audience of the Technical Meeting is operating organizations, regulatory bodies and their technical support organizations, consultants and advisory bodies.

## **Objectives**

The objective of the event is to provide a forum for discussion on current challenges related to the use of PSR for the safe long-term operation of nuclear power plants. The participants will be given an opportunity to discuss and comment on a draft publication on that subject, which was produced by a group of international experts and advisors from different Member States. An important aim of the event is to undertake comparison and identification of good practices and difficulties experienced in using periodic safety review results in support of long-term operation at nuclear power plants. It is expected that the Technical Meeting will also provide valuable inputs to the draft Safety Report.

## **Target Audience**

Participation is solicited from staff members of regulatory bodies, NPP operators, utility organizations, design and engineering consultant organizations, as well as from international organizations engaged in activities related to NPP safety and regulation. To ensure maximum effectiveness in the exchange of information, participants should be actively involved in the subject of the event.

The event is, in principle, open to all officially designated persons. The IAEA, however, reserves the right to restrict participation due to limitations imposed by the available facilities. It is, therefore, recommended that interested persons take the necessary steps for the official designation as early as possible.

## **Working Language(s)**

English.

## **Expected Outputs**

An important aim of the event is to undertake comparison and identification of good practices and difficulties experienced in using periodic safety review results in support of long-term operation at Nuclear Power Plants.

It is expected that the Technical Meeting will also provide valuable inputs on the draft recommendations for future IAEA activities in the areas covered by the Technical Meeting, and for strengthening international cooperation to advance nuclear safety.

## **Structure**

The opening session will include welcome addresses. This session will be further complemented by keynote presentations on the importance of the workshop's overall theme. The topic of each session will be introduced by a chairperson, followed by oral presentations that will be selected based on papers submitted to the Scientific Secretary. Each session will comprise a common discussion.

Finally, during the concluding session, the respective chairpersons will summarize their sessions. After the workshop, the IAEA and the NRG will jointly consolidate and publish the event findings, conclusions and recommendations of the event.

## **Topics**

The event will address the scope of assessment, methods and applicable criteria applied within the PSR and LTO programme framework to support decision making for LTO of nuclear power plants that includes:

- Scope and content of PSR for LTO justification;
- PSR basis document;
- Methodology and acceptance criteria;
- Inputs from LTO programmes to PSR;
- Outputs from PSR programme to LTO justification;
- Implementation programme of commitments and improvements for LTO;
- Global assessment for LTO.

## 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 **30 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 the 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](mailto:InTouchPlus.Contact-Point@iaea.org).

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.

## 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 indicate their intention in the **Participation Form (Form A)**.

Presentations must last no more than 20 minutes and will be followed by further ten-minute discussion. They should be sent electronically in PowerPoint format to the Scientific Secretary of the event (see contact details below) not later than **18 October 2021**.

## Additional Information

The event will be conducted via Cisco WebEx from 9 to 12 November 2021. The event agenda and the information on how to connect, time frame and time window of the sessions during the virtual workshop will be sent to the designated participants per email.

## IAEA Contacts

### Scientific Secretary:

**Mr Alexander Duchac**

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### Administrative Secretary:

**Ms Leticia Sedlazek**

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

## Event Web Page

Please visit the following IAEA web page regularly for new information regarding this event:

[www.iaea.org/events/EVT2100112](http://www.iaea.org/events/EVT2100112)



# Participation Form

## Technical Meeting on the Use of Periodic Safety Reviews for Long Term Operation of Nuclear Power Plants

Virtual Event

9–12 November 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](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 Secretary [A.Duchac@iaea.org](mailto:A.Duchac@iaea.org) and to the Administrative Secretary [L.Sedlazek@iaea.org](mailto:L.Sedlazek@iaea.org).

**Deadline for receipt by IAEA through official channels: 30 September 2021**

Family name: (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:		

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.