



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

Organismo Internacional de Energía Atómica

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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 Managing the Ageing and Obsolescence of Nuclear Instrumentation and Control Systems and Components through Modernization** (hereinafter referred to as "event"), which had to be postponed owing to the COVID-19 pandemic and will now be held virtually via Microsoft Teams from **2 to 5 March 2021**.

The purpose of the event is to provide an international forum for sharing experiences and lessons learned in the management of ageing and obsolescence of nuclear instrumentation and control systems and components at nuclear power plants, considering modernization as the main means of management; and to assist the IAEA in planning future activities on this topic. The event will also provide an opportunity to review a draft IAEA Nuclear Energy Series publication, provisionally entitled *Management of Ageing and Obsolescence of Nuclear Instrumentation and Control Systems and Components through Modernization*.

The attached Information Sheet provides further details of the event.

The event will be held in English.

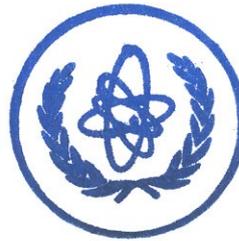
Member States are informed that designations already received for this event will remain valid. Should Member States not have submitted any designations or wish to change their designation, they are invited to designate one or more participants to represent the Government at this event. Member States 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 **1 February 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 Secretary of the event, Mr Janos Eiler, Division of Nuclear Power, Department of Nuclear Energy (Email: J.Eiler@iaea.org), and to the Administrative Secretary, Ms Olga Gloeckler (Email: O.Gloeckler@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.

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.



2020-12-22

Enclosures: Information Sheet

Participation Form (Form A)



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

Technical Meeting on Managing the Ageing and Obsolescence of Nuclear Instrumentation and Control Systems and Components through Modernization

Virtual Event

2–5 March 2021

Ref. No.: EVT1904665

Information Sheet

Introduction

The majority of existing nuclear power plants (NPPs) are operated either with their original instrumentation and control (I&C) equipment or with obsolete digital equipment, both of which are becoming, or already are, aged and degrading in performance. Utilities are faced with increasing operating and maintenance costs to retain acceptable reliability and performance of their I&C equipment.

Problems also include the lack of availability of spare parts and the deterioration of the infrastructure of suppliers to support the replacement of aged equipment. Consequently, most of the plant systems and components need to be modernized in a reliable and cost-effective manner.

Modernization of I&C equipment, however, brings with it several challenges. These include the determination of which systems and components to modernize and when, what technology to use, how

to implement new systems and technologies, how to add the replacement systems so that they will work together with the remaining older systems that are based on a different technology, how to address new concerns that digital technology raises, what is needed to support licensing and many other related questions.

Recognizing the relevance of the above-mentioned issues, at their 2019 meeting the members of the Technical Working Group on Nuclear Power Plant Instrumentation and Control recommended to the IAEA that it should initiate relevant activities to address these problems. In response, the IAEA is developing a new Nuclear Energy Series report provisionally entitled *Managing the Ageing and Obsolescence of Nuclear Instrumentation and Control Systems and Components through Modernization* to provide guidance to Member States in this area.

Objectives

The purpose of the event is to provide an international forum for sharing experiences and lessons learned in the management of ageing and obsolescence of nuclear instrumentation and control systems and components at nuclear power plants, considering modernization as the main means of management; and to assist the IAEA in planning future activities on this topic. The event will also provide an opportunity to review a draft IAEA Nuclear Energy Series publication, provisionally entitled *Management of Ageing and Obsolescence of Nuclear Instrumentation and Control Systems and Components through Modernization*.

Target Audience

In view of the subject of the event, participation is limited to IAEA Member States that currently operate NPPs or are constructing their first NPP units. Participation is solicited from representatives of NPPs and regulatory bodies, utilities, technical support organizations, designers, developers, vendors, and research organizations engaged in the field of I&C design and the application of such systems at NPPs. To ensure maximum effectiveness in the exchange of information, participants should be persons actively involved in the subject matter of the event.

The event is, in principle, open to all officially designated persons. The IAEA, however, reserves the right to limit participation due to information technology capacity limitations. It is therefore recommended that interested persons take the necessary steps to secure their official designation as early as possible.

Working Language

The working language of the event will be English; no interpretation will be provided.

Structure

The draft manuscript of the new IAEA Nuclear Energy Series report, provisionally entitled *Managing the Ageing and Obsolescence of Nuclear Instrumentation and Control Systems and Components through Modernization*, will be provided to the participants prior to the event. This draft will serve as the basis for dialogues at the event. Participants will be requested to review selected parts of the document and to provide their remarks and comments.

Topics

Owing to the limitations imposed by the virtual nature of the event, only invited keynote presentations will be made on approaches related to the understanding of ageing effects, degradations mechanisms and obsolescence processes of nuclear I&C systems and components, and to modernization strategies and practices at NPPs.

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 **1 February 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 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.

Presentations

Presentations should be prepared as Microsoft PowerPoint (ppt) or Portable Document Format (pdf) files. Authors are requested to provide the Scientific Secretary with electronic copies of their presentation files in advance of their scheduled presentation slot so that the files can be duly uploaded.

Electronic versions of the presentations are also necessary to ensure timely issuance of the proceedings to be prepared and distributed in electronic form.

The number of presentations will be limited so as to leave sufficient time for discussions and review of the draft IAEA Nuclear Energy Series report provisionally entitled *Managing the Ageing and Obsolescence of Nuclear Instrumentation and Control Systems and Components through Modernization*.

Venue

The event will be held remotely using a standard IAEA IT platform in accordance to an agenda provided in advance of the first session. The expected meeting duration is 2 hours per day (totally 8 hours) considering the time difference across the world.

Selected participants will be required to provide confirmation of accessibility to the standard IAEA IT platform.

Additional Information

The event will start on Tuesday, 2 March 2021, at 13.00 Central European Time (CET) and end on Friday, 5 March 2021, at 15.00 CET. MS Teams will be used as the IT platform for the event. The expected event duration is 2 hours per day (totally 8 hours) considering the time difference across the world.

The event agenda will be sent to the designated participants in due course.

IAEA Contacts

Scientific Secretary:

Mr Janos Eiler

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Administrative Secretary:

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Tel.: +43 1 2600 22804

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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.

Participation Form

Technical Meeting on Managing the Ageing and Obsolescence of Nuclear Instrumentation and Control Systems and Components through Modernization

Virtual Event

2–5 March 2021

To be completed by the participant and sent to the competent official 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 to the Scientific Secretary J.Eiler@iaea.org and to the Administrative Secretary O.Gloeckler@iaea.org.

Deadline for receipt by IAEA through official channels: 1 February 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 give a presentation? Yes <input type="checkbox"/> No <input type="checkbox"/> Title:		