



**IAEA**

*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

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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 Effects of Climate Change on Meteorological and Hydrological Hazards for Nuclear Installations** (hereinafter referred to as "event") to be held at the IAEA's Headquarters in Vienna, Austria, from **14 to 18 November 2022**.

In addition, the event will allow for virtual participation via Cisco Webex.

The purpose of the event is to gather experience from Member States related to the assessment of meteorological and hydrological hazards, with special emphasis on the modelling of climate change effects and their impact on the plant design basis.

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.

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 at the time of designating the participant(s) using the attached Grant Application Form (Form C).

It should be noted that compensation is not payable by the IAEA for any damage to or loss of personal property. The IAEA also does not provide health insurance coverage for participants in IAEA events. Arrangements for private insurance coverage on an individual basis should therefore be made. The IAEA will, however, provide insurance coverage for accidents and illnesses that clearly result from any work performed for the IAEA.

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 **9 September 2022** 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 Secretaries of the event, Mr Paolo Contri (Email: [P.Contri@iaea.org](mailto:P.Contri@iaea.org)) and Ms Zeynep Gulerce (Email: [Z.Gulerce@iaea.org](mailto:Z.Gulerce@iaea.org)), both of the Division of Nuclear Installation Safety, Department of Nuclear Safety and Security, and to the Administrative Secretary, Ms Minitha Poikudiyil (Email: [M.Poikudiyil@iaea.org](mailto:M.Poikudiyil@iaea.org)). The Scientific Secretaries of the event will liaise with the participants directly concerning further arrangements, including travel details, 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. In accordance with the established rules, Governments are expected to bear the cost of attendance of any observers they may send to IAEA events. Compensation is not payable by the IAEA for any damage to or loss of observers' personal property or for illness, injury or death occurring while travelling to or in connection with their attendance at IAEA events.

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.



2022-05-10

Enclosures:      Information Sheet  
                         Participation Form (Form A)  
                         Grant Application Form (Form C)



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# **Technical Meeting on the Effects of Climate Change on Meteorological and Hydrological Hazards for Nuclear Installations**

**IAEA Headquarters, Vienna, Austria**  
and virtual participation via Cisco Webex

**14–18 November 2022**

**Ref. No.: EVT2104474**

## **Information Sheet**

### **Introduction**

In the IAEA Safety Standards Series No. SSG-18, many recommendations are provided to address the implications of climatic variability and change, and in particular, the possible consequences on nuclear safety of installations in relation to meteorological and hydrological extremes and hazards that should be considered for the planned operating lifetime of the plant. Over a life period of approx. 100 years, it is expected that the global climate is likely to undergo changes, with regional variability. Consequently, the variability of and changes in regional climate should be considered, with account taken of uncertainties in the climate projections. In particular, the SSG-18 recommends that an additional safety margin should be taken into consideration since the design of nuclear power plants. Periodic re-evaluation of design parameters should also be performed, as the uncertainties affecting the estimates of future extremes of climate are reduced or as observed trends show evidence of more extremes of climate.

With this event, the Member States will be able to recognize, discuss and assess the challenging issues on this topic, both in the areas of hazard evaluation and design of protection, and to gather experiences and suggestions for optimized management of plants safety.

## Objectives

The objective of the event is to discuss the most recent experience of Member States in the application of the available predictive methods for climate change effects, in order to compare the best available approaches for site hazard and plant safety assessment to account for climate change effects on plant safety for new and existing NPP sites. In addition, the meeting will identify new generation site monitoring systems oriented to the site hazard continuous assessment and for timely management of plant reaction to extreme events, following the recommendations of SSG-18.

## Target Audience

The event is open to all experts from Member States involved or interested in the assessment of the impact of climate change effects on nuclear installations safety.

Experts with experience in climatology, simulation, plant safety, meteo and hydro hazard assessment, design of nuclear installations, and safety assessment. It is offered to operators, regulators, TSO's and all stakeholders dealing with climate change effects on nuclear installations.

## Topics

The meeting will be focused to the integration of prediction models for climate change effects into the development of natural hazards, providing state-of-the-art methods for uncertainty minimisation by means of sustainable techniques. The discussion will try to integrate statistical and numerical modelling competences with meteorological and hydrological competences in order to develop a sustainable framework for the development of time-dependant hazards. The main investigation areas can be summarised as below:

1. Practice in evaluation of time dependent hazards among Member States, specialised national Agencies and international organizations (e.g. WMO)
2. Modelling issues in the evaluation of meteo and hydro hazards.
3. Analysis of MS experience in protection of nuclear installations against climate-change effects and analysis of recent challenging events.
4. Collection of recommendations, suggestions and guidelines on modelling, data analysis and design of protection in relation to climate-change effects and design of site monitoring systems oriented to continuous assessment of time dependent hazards.

## Working Language

English.

## Participation and Registration

The TM is targeted at experts from regulatory bodies, utilities, technical support organizations, vendors and research and development organizations, who are working in the areas covered by the workshop.

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 **9 September 2022**. 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.

## 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 **9 September 2022**.

## 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.

In addition, the event will allow for virtual participation via Cisco Webex.

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

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.

## IAEA Contacts

### Scientific Secretaries:

#### Mr Paolo Contri

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**Administrative Secretary:**

**Ms Minitha Poikudiyil**

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Fax: +43 1 26007

Email: [M.Poikudiyil@iaea.org](mailto:M.Poikudiyil@iaea.org)

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



# Participation Form

## Technical Meeting on the Effects of Climate Change on Meteorological and Hydrological Hazards for Nuclear Installations

IAEA Headquarters, Vienna, Austria and virtual participation via Cisco Webex

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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 [P.Contri@iaea.org](mailto:P.Contri@iaea.org) and [Z.Gulerce@iaea.org](mailto:Z.Gulerce@iaea.org), and to the Administrative Secretary [M.Poikudiyil@iaea.org](mailto:M.Poikudiyil@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: 9 September 2022**

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:	
Virtual Attendance	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If/as applicable:		
Do you intend to submit a paper?	Yes	No
Would you prefer to present your paper as a poster?	Yes	No
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.



# Grant Application Form

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**Deadline for receipt by IAEA through official channels: 9 September 2022**

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms:
Mailing address:	Tel.:	
	Fax:	
	Email:	
Date of birth (yyyy/mm/dd):	Nationality:	
I plan to attend virtually:	Yes <input type="checkbox"/> No <input type="checkbox"/>	

### 1. Education (post-secondary):

Name and place of institution	Field of study	Diploma or Degree	Years attended	
			from	to

### 2. Recent employment record (starting with your present post):

Name and place of employer/ organization	Title of your position	Type of work	Years worked	
			from	to

### 3. Description of work performed over the last three years:

### 4. Institute's/Member State's programme in field of event:

Date: \_\_\_\_\_ Signature of applicant: \_\_\_\_\_

Date: \_\_\_\_\_ Name, signature and stamp of Ministry of Foreign Affairs,  
Permanent Mission to the IAEA or National Atomic Energy  
Authority

\_\_\_\_\_