



Technical Meeting on Probabilistic Safety Assessment of Nuclear Installations in Relation to External Events and their Combinations

**IAEA Headquarters
Vienna, Austria**

6–10 November 2023

Ref. No.: EVT2204347

Information Sheet

Introduction

External events (hazards) have the potential to disrupt the operation of Nuclear Power Plants (NPPs). In the last few decades, seismically induced geotechnical hazards affected several NPPs. The effects of the earthquake induced tsunami off the coast of Japan in 2011 on the Fukushima Daiichi Nuclear Power Plant are well known. These events, as well as a number of others, highlight the need for continued research and dissemination of lessons learned for evaluation of external event hazards, design implications, and the treatment of their effects in safety assessments. The need to investigate the impacts of external event hazards using a risk-informed performance-based approach is increasing.

The EESS has also developed the External Events Notification System (EENS). EENS is a web-based application that provides real time information on natural hazards including earthquakes and floods that may impact population centres or nuclear power plant operations. The EENS can be expanded to allow for notification of sites impacted by other external events such as tropical cyclones, wildfires, volcanic events, and others. A status on the data collected by the EENS and presentation of draft periodic reports will also be presented at this meeting.

This technical meeting will present technical background and progress on number of projects implemented at the EESS on probabilistic safety assessment of nuclear installations in relation to external event scenarios other than seismic, i.e. tsunami, flooding, meteorological, etc. These topics include:

1. Development of a new Safety Guide on the Conduct of Safety Assessments in Relation to External Event Scenarios other than Seismic;
2. Technical document on the Evaluation of Design Robustness of Nuclear Installations Against External Hazards;
3. Guidance document on Safety Evaluation of Nuclear Installations Against External Events Induced Hazard Combinations;
4. Technical document on Probabilistic Safety Assessment for Evaluation of Nuclear Installations against Tsunami Hazard;
5. External Event Notification System (EENS): analysis of lessons learned from all events occurred in the last year worldwide.

The presentations on the Technical Documents will provide details on the draft and collect technical feedback.

The meeting venue is the Vienna International Centre, Vienna, Austria.

Objectives

This technical meeting will serve as a forum for attendees to become informed about recent work the External Events Safety Section (EESS) is involved with, especially on the application of risk informed performance-based approach to safety assessment of nuclear installations. It will provide an opportunity for technical officers in Members States to network and to interact with each other on this important topic.

Target Audience

The target audience is limited to Member States with an established nuclear programme, and countries at an advanced stage of embarking on a nuclear power programme.

Working Language(s)

English

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 **22 September 2023**. 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.

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.

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 **22 September 2023**.

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.

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:
<https://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.

Organization

Scientific Secretary

Mr Michael Salmon

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Administrative Secretary

Ms Nadia Nammari

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International Atomic Energy Agency
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Fax: +43 1 26007

Email: N.Nammari@iaea.org

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

Participation Form

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IAEA Headquarters, Vienna, Austria

6 to 10 November 2023

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 Secretary, Mr Michael Salmon, Division of Nuclear Installation Safety, Department of Nuclear Safety and Security (Email: M.Salmon@iaea.org) and to the Administrative Secretary, Ms Nadia Nammari, (Email: N.Nammari@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: 22 September 2023

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 make a presentation? 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 as per Conference Announcement.

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:	

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 attended 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**
