



International Hands-on Regulatory Inspector Training

Hosted by

the IAEA and the Republic of Austria

through the

**Energieversorgung Niederösterreich (EVN) AG,
Nuclear Power Plant Zwentendorf**

Zwentendorf, Austria

03 – 13 June 2024

Ref. No.: EVT2304021

Information Sheet

Introduction

Today many of the IAEA Member States are considering nuclear power as part of their energy strategy. As a result, there is a need within these countries to hire and train staff in various areas of nuclear safety including nuclear safety inspection and enforcement.

To help meet the needs of these embarking countries, the IAEA has established the highly successful hands-on inspector workshop using nuclear power plants (NPPs) in the Member States. This workshop is specifically intended for staff of nuclear regulatory bodies. The workshop is aimed to assist Member States that have decided to develop a nuclear power programme in planning, building and assessing a nuclear power infrastructure (political, socio-economical, technical, financial etc.), a nuclear safety infrastructure and a regulatory framework in accordance with the IAEA Safety Standards. This would include strategy development, feasibility, financing, and nuclear power infrastructure programme management which relates to the elements identified in IAEA Safety Standard SSG-16, “Establishing the Safety Infrastructure for a Nuclear Power Programme.” New challenges are emerging and require emphasis on issues such as NPP modifications, reactor aging and lifetime management, staff aging and maintenance of knowledge, and licensing of new NPP units.

Objectives

The purpose of the event is to familiarize the participants with the fundamentals of regulatory inspections of nuclear power plants and offer hands-on, real-life scenario training as an introduction to inspection skills and methods.

Target Audience

The participants for the event should represent the regulatory body and have a basic understanding of the IAEA Safety Standards relating to the inspection and enforcement of nuclear power plants. Participants should meet the following qualifications:

- Engineering or science degree, or equivalent experience
- No or limited inspection experience
- Basic power reactor knowledge
- Limited risk assessment and deterministic knowledge of NPPs
- A member of a regulatory body

Candidates from other countries already operating nuclear power plants that are in the process of reinforcing the safety infrastructure to expand the nuclear programme will be considered on a need basis.

Working Language(s)

English

Topics

This event is planned for nine working days and will include a combination of classroom workshop, a visit to Nuclear Power Plant Zwentendorf and interactive exercises.

- Basic knowledge of the IAEA Safety Standards
 - Brief introduction to IAEA activities in nuclear regulatory area
 - An overview of the standards that are applicable to regulatory inspections
 - Highlights of applying specific requirements such as unannounced inspections and unfettered access to the facilities and activities of the NPP
- Fundamentals of inspection
 - Preparation (gathering of information, prepare an inspection plan and schedule using risk insights, operating experience and other relevant information as discussed in the inspection procedure)
 - Conduct (field techniques using direct observation, indirect observation, performance based, interviewing skills, role and conduct of inspector)
 - Evaluation (determine extent of condition and root cause – if appropriate, safety significance of findings)
 - Reporting (what does it take to communicate findings)

- An overview of the basic information required for inspections
 - Plant familiarization
 - Review the preliminary/final safety analysis, probabilistic risk assessment, plant drawings, technical specifications,
 - Overview of operating and maintenance procedures
 - Industrial safety
 - Radiological protection and controls
 - Discuss housekeeping and fire protection standards
 - Security

- How to perform general plant inspections
 - Fire protection
 - Housekeeping
 - Radiological protection
 - Foreign material exclusion
 - Scaffolding over safety systems
 - Flood barriers
 - Valve position, indicator lights, locking devices, improper pipe supports, labelling errors, thread engagement, temporary modifications, material damage, etc.

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 **10 May 2024**. 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.

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 **10 May 2024**.

Visas

Participants who require a visa to enter Austria should submit the necessary application as soon as possible to the nearest diplomatic or consular representative of the Host Country.

Organization

Scientific Secretary

Mr Zia Hussain Shah

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AUSTRIA

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Fax: +43 1 26007

Email: Z.H.Shah@iaea.org

Administrative Secretary

Mr Martyn O. Ubani

Division of Nuclear Installation Safety
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre
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1400 VIENNA
AUSTRIA

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Fax: +43 1 26007

Email: M.Ubani@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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Zwentendorf, Austria

3 to 13 June 2024

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 Zia Hussain Shah, Division of Nuclear Installation Safety, Department of Nuclear Safety and Security (Email: Z.H.Shah@iaea.org) and to the Administrative Secretary, Mr Martyn O. Ubani, (Email: M.Ubani@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: 10 May 2024

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	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.

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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**
