



# **Interregional Training Course on Leadership and Management for Safety**

**Hosted by**

The Government of People`s Republic of China

**Through the**

State Power Investment Corporation Nuclear Energy Co., Ltd.

**14 -18 October 2024**

**Ref. No.: TN-INT2024-2401295**

## **Information Sheet**

### **Purpose**

The purpose of the event is to train participants from Member States embarking or expanding their nuclear power programmes on the establishment of management system, nuclear leadership and safety culture in accordance with the IAEA Safety Standards and other relevant IAEA guides.

### **Working Language**

The training course will be conducted in English.

### **Deadline for Nominations**

Nominations received after 24 May 2024 will not be considered.

## Project Background

The use of nuclear power as a source of energy is increasing globally, with many countries introducing or expanding their nuclear power programmes. Such programmes require a long term commitment and a national nuclear infrastructure that provides governmental, legal, regulatory, institutional, managerial, technological, human resource, industrial and stakeholder support throughout its life cycle. The adherence to international legal instruments, and the adoption of internationally accepted nuclear safety standards, nuclear security guidance and safeguards requirements are essential in establishing a responsible nuclear power programme. It is each country's sovereign decision whether to include nuclear power in its national energy mix. However, when countries proceed with this option, the IAEA is ready to support them through a variety of activities and services to do so safely, securely and sustainably.

Currently, the IAEA provides nuclear infrastructure development training to its Member States through a number of mechanisms. Through the Technical Cooperation programme, Member States benefit from training at the national, regional and interregional level. The majority of the training provided on the introduction of nuclear power is general in nature and cuts across the 19 infrastructure issues. In this respect, the interregional projects are an important mechanism, delivering support across national and regional boundaries and addressing the common needs of different regions. The interregional approach through INT2024–NPID is then necessary to streamline the IAEA support in this area.

Developing a nuclear power programme is a major undertaking requiring careful planning and preparation. When developing and implementing the appropriate infrastructure to support the successful introduction of nuclear power, a wide range of issues and challenges need to be considered, two of which is the identification of a suitable site for nuclear power plants.

The survey and selection of appropriate site(s) is a project that needs to begin early. A well-managed process, including appropriate stakeholder involvement, often facilitates acceptance of a project. Most Member States of the IAEA that are considering nuclear power have no or little experience of siting and site evaluation activities specific to nuclear power plant.

A well planned and managed site survey and selection process, considering safety, environmental, technical, economic, and social factors, will ensure the proper choice of site and help the nuclear power programme and associated site related projects to be completed in a timely manner. If not properly planned and executed, it may result in major delays to the programme. It is therefore important to (i) share experiences and good practices related to this subject; (ii) highlight the importance of establishing a comprehensive management system with methodologies for planning and implementing the siting activities; (iii) further emphasize the importance of safety in siting; (iv) provide introduction on the site evaluation activities that follows the selection of appropriate site(s) and (v) ensure that the required quality of the activities is achieved.

The IAEA's Milestones Approach identifies 19 infrastructure issues that should be addressed in each of three phases of the development of nuclear infrastructure for a nuclear power programme. Siting and supporting facilities is one of these 19 infrastructure issues. Any country considering or implementing a new nuclear power programme should plan to develop or strengthen its national legal and regulatory framework so that it can fulfil in a timely manner the increasing obligations in this area associated with the introduction of nuclear power.

Management and leadership are two distinctively different areas that both interface with the culture of a nuclear organization. Leadership skills in a nuclear power programme and project are crucial, and highly competent managers focused on leading their personnel are vital to success at all life cycle phases of a nuclear facility. The management system is a vital element for a safe sustainable nuclear project. Finally, a healthy organizational culture is necessary for safety and economic success. Attendees will be receiving lectures in all these areas and will participate in exercises that help them apply the teachings in practice.

## Scope and Nature

This training course is planned for one week and will include a combination of classroom lectures, discussions, site visits, practical examples, and interactive exercises. The training course will be conducted as a series of presentations by IAEA staff and international experts. The programme will also include discussions and peer-to-peer exchange of good practices.

The following themes, among other, belong to the scope:

- GSR Part 2 requirements and ways of their practical implementation in nuclear power projects
- Interrelationship of leadership, management and culture for safety and their importance in all phases within IAEA milestones approach
- Characteristics of efficient leadership for safety
- Importance of setting goals, policies, strategies and objectives in accordance with fundamental safety objective
- Establishing an integrated and process-based management system
- Graded approach
- Resources management and supply chain management
- Importance of safety culture
- Traits and attributes of strong and healthy safety culture
- Assessment activities, such as self-assessment and independent assessment of management system and leadership and culture for safety

## References

- [IAEA Safety Standards, No. SF-1. Fundamental Safety Principles](#)
- [IAEA Safety Standards, No. GSR Part 2. Leadership and Management for Safety](#)
- [IAEA Safety Standards, Application of Management System for Facilities and Activities No. GS-G-3.1, IAEA, Vienna \(2006\)](#)
- [IAEA Safety Standards, The Management System for Nuclear Installations No. GS-G-3.5, IAEA, Vienna \(2009\)](#)
- [Milestones in the Development of a National Infrastructure for Nuclear Power, IAEA Nuclear Energy Series NG-G-3.1 \(Rev. 1\), Vienna \(2015\)](#)
- [Development and Implementation of a Process Based Management System, IAEA Nuclear Energy Series NG-T-1.3, Vienna \(2015\)](#)
- [Management of Nuclear Power Plant Projects, IAEA Nuclear Energy Series NG-T-1.6, IAEA, Vienna \(2020\).](#)
- [IAEA Leadership Blueprint](#)

## Expected Outputs

The expected outputs of the training course are as follow:

- Improved understanding of leadership, management and culture for safety and their interrelation and importance
- Improved understanding of characteristics of efficient nuclear leadership
- Enhanced capability to design and implement management system in organizations active in nuclear power projects

- Improved understanding of process management
- Enhanced capability to establish safety culture programme including its assessment
- Improved understanding of importance of various kinds of self-assessment and independent assessment
- Improved understanding of the IAEA guidance and services related to the development of nuclear power projects

## Participation

The event is open up to 25 participants from the following Member States participating in the INT2024 project which need assistance to enhance the number and knowledge of staff involved in launching or expanding nuclear power programmes, namely:

Algeria; Argentina; Armenia; Bangladesh; Brazil; Bulgaria; Czech Republic; Egypt; El Salvador; Estonia; Ethiopia; Ghana; Hungary; Indonesia; Iran, Islamic Republic of; Jordan; Kazakhstan; Kenya; Lithuania; Mexico; Mongolia; Morocco; Nigeria; Pakistan; Philippines; Poland; Romania; Saudi Arabia; Senegal; Slovakia; South Africa; Sri Lanka; Thailand; Tunisia; Türkiye; Uganda; Uzbekistan; Zambia.

## Participants' Qualification and Experience

This training course is open for current/forthcoming managers, project managers, management system specialists, specialists participating in the development of leadership and safety culture programmes. The training course is suitable for personnel from current/future owner-operator organizations, nuclear regulatory bodies, technical support organizations and nuclear energy programme implementing organizations (NEPIOs).

In their application, candidates are requested to submit a summary of how this training will provide direct benefit to their current or future job position.

Participants are encouraged to get acquainted with the following IAEA E-Learnings before joining the course:

### [ E-learning ]

- Course: IAEA Safety Standards General Safety Requirements Part 2: Leadership and Management for Safety
- Course: IAEA Safety Standards Overview
- Culture for Safety
- Management Systems

## Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (<https://intouchplus.iaea.org>) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (<https://websso.iaea.org/IM/UserRegistrationPage.aspx>) before proceeding with the event application process below.
2. On the InTouch + platform, the candidate must:
  - a. Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents;
  - b. Download and complete the Designation of Beneficiary and Emergency Contact Form, and upload to InTouch+ ('Profile' tab under the personal section) specifying the document name. If already provided, kindly discard this step;
  - c. Search for the relevant technical cooperation event (**EVT2401295**) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

**NOTE:** Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline. **All nominations must include a scan of the candidate's first page of passport with photo.**

For additional support on how to apply for an event, please refer to the [InTouch+ Help page](#). Any issues or queries related to InTouch+ can be addressed to [InTouchPlus.Contact-Point@iaea.org](mailto:InTouchPlus.Contact-Point@iaea.org).

Should online application submission not be possible, candidates may download the nomination form for the training course from the [IAEA website](#).

**NOTE:** A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for a) events with a duration exceeding one month, and/or b) all candidates over the age of 65 regardless of the event duration.

## **Training on Basic Security in the Field (BSAFE)**

In order to comply with UN system-wide security measures, it is required that all training course participants complete the online security awareness training BSAFE (which replaces BSITF and ASITF), prior to traveling to locations where UN security phases are in effect. The aim of these course is to educate participants on how best to avoid or minimize potential dangers and threats, and to demonstrate what individuals can do if they find themselves in insecure situations. The course is available online (<https://training.dss.un.org/course/category/6>).

Once an individual has completed the training, he/she must go back to the main training page to receive the certificate. If the button to get the certificate is not immediately visible, please refresh the page. BSAFE is maintained by UNDSS; in case of problems with the system, please contact UNDSS through the "Contact Us" page on the training website (<https://dss.un.org/dssweb/contactus.aspx>).

This certificate is compulsory for any IAEA-supported activity and should be submitted, along with the Nomination Form, through the competent authority in your country (NLO). Copies of the certificate should be kept by the candidate for his/her records as the BSAFE certificate does not expire.

## **Administrative and Financial Arrangements**

Nominating authorities will be informed in due course of the names of the candidates who have been selected and will at that time be informed of the procedure to be followed with regard to administrative and financial matters.

Selected participants will receive an allowance from the IAEA sufficient to cover their costs of lodging, daily subsistence, and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station through the IAEA's travel agency American Express, or a travel grant, or they will be reimbursed travel by car/bus/train in accordance with IAEA rules for non-staff travel.

**NOTE:** The event will be hosted in Yantai city, China, therefore nominated participants who require a visa to enter People's Republic of China should submit the necessary application to the nearest diplomatic or consular representative of People's Republic of China as soon as possible.

## **Disclaimer of Liability**

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while she/he is travelling to and from or attending the course, and it is clearly understood that each Government, in approving her/his participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

## **Note for Female Participants**

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

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