IAEA
International Atomic Energy Agency
Atoms for Peace and Development

International Training Course on the Evaluation of the Radiological Impact of Nuclear Installations

IAEA Headquarters
Vienna, Austria

6 - 9 April 2027

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Information Sheet

Introduction

The evaluation of the potential radiological impact of a nuclear installation on people and the environment is an important element of the site evaluation process. It provides a basis for understanding the transport and dispersion of radioactive material through relevant environmental pathways and for assessing potential impacts on populations and the environment. The evaluation also supports the assessment of site suitability and the feasibility of planning effective emergency response actions.

The IAEA has established safety requirements and recommendations for the investigation of site characteristics and evaluation of potential radiological impacts. In particular, IAEA Safety Standards Series No. SSG-92, Investigation of Site Characteristics and Evaluation of Radiation Risks to the Public and the Environment in Site Evaluation for Nuclear Installations, provides recommendations on the collection and evaluation of relevant site and regional information, including population distribution and environmental characteristics, as well as the analysis of radionuclide dispersion and transfer through environmental pathways.

The application of these recommendations requires appropriate consideration of site-specific environmental characteristics and data, modelling approaches and tools, uncertainties and the application of a graded approach.

With this background in mind, the IAEA is organizing the International Training Course on the Evaluation of the Radiological Impact of Nuclear Installations at IAEA Headquarters in Vienna from 06 to 09 April 2027. The four-day training course will provide participants with an opportunity to strengthen their knowledge and practical understanding of the investigation of relevant site characteristics, collection and use of baseline environmental data, analysis of radionuclide dispersion and transfer, and evaluation of the

potential radiological impact on people and the environment. The training will combine presentations, practical exercises and hands-on applications, with emphasis on the application of SSG-92 and exchange of experience among participating Member States.

The course is intended for professionals involved in the safety, site evaluation, environmental assessment and regulatory oversight of nuclear installations, including representatives of governmental organizations, regulatory bodies, operating organizations, technical and scientific support organizations, industry, universities and research institutions.

Objectives

The objective of the training course is to strengthen the knowledge and practical capabilities of participants from IAEA Member States in the investigation of relevant site characteristics and the evaluation of the potential radiological impact of nuclear installations on people and the environment.

The training will provide participants with an understanding of approaches for collecting and using baseline environmental data, including population distribution; analysing radionuclide dispersion and transfer through relevant environmental pathways; applying appropriate modelling tools; considering uncertainties and a graded approach; and evaluating the implications of the results for site evaluation and emergency response planning, in accordance with SSG-92.

Target Audience

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

Working Language

English.

Expected Outputs

The training will strengthen participants' knowledge and practical capabilities in applying SSG-92 to the evaluation of the potential radiological impact of nuclear installations. Participants will gain practical experience in the use of site and environmental data, radionuclide dispersion and transfer modelling, interpretation of assessment results, and their consideration in the site evaluation process.

The training will also facilitate the exchange of national practices, challenges and lessons learned among participating Member States. A final report will document the programme, presentations, practical exercises, discussions and key conclusions. Issues identified during the course may provide input to potential future IAEA technical cooperation, capacity-building or other follow-up activities.

Topics to be covered

- IAEA Safety Standards and approaches relevant to the investigation of site characteristics and evaluation of radiation risks to the public and the environment, with particular emphasis on SSG-92.
- Site and regional characteristics and baseline environmental data, including population distribution, land and water use, environmental characteristics and background levels of radioactivity.
- Radioactive release pathways and environmental transfer mechanisms, including relevant pathways through the atmosphere, surface water and groundwater.
- Methodologies and modelling tools for radionuclide dispersion and transfer in the atmosphere, surface water and groundwater.
- Evaluation of radiological impacts on people and the environment under normal operational conditions and accident conditions, including consideration of uncertainties and a graded approach.
- Environmental radioactivity monitoring and the use of monitoring data in radiological impact assessment.
- Consideration of site characteristics in emergency response planning, including the feasibility of planning effective emergency response actions.
- Preparation, interpretation and regulatory use of radiological impact assessments.
- Practical and hands-on training on the modelling and assessment of radionuclide dispersion and radiological impacts using appropriate software tools.

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 or invited organization, participants are requested to submit their application via the InTouch+ platform (https://intouchplus.iaea.org) to the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA by **5 February 2027**, following the registration procedure in InTouch+:

1. Access the InTouch+ platform (https://intouchplus.iaea.org):
   - Persons with an existing NUCLEUS account can sign in to the platform with their username and password;
   - Persons without an existing NUCLEUS account can register here.

2. Once signed in, prospective participants can use the InTouch+ platform to:
   - Complete or update their personal details under 'Complete Profile' and upload the relevant supporting documents;
   - Search for the relevant event under the 'My Eligible Events' tab;

- Select the Member State or invited organization they want to represent from the drop-down menu entitled 'Designating Authority' (if an invited organization is not listed, please contact InTouchPlus.Contact-Point@iaea.org);
- If applicable, indicate whether a paper is being submitted and complete the relevant information;
- If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);
- Based on the data input, the InTouch+ platform will automatically generate the Participation Form (Form A) and/or the Grant Application Form (Form C);
- Submit their application.

Once submitted through the InTouch+ platform, the application, together with the auto-generated form(s), will be transmitted automatically to the required authority for approval. If approved, the application, together with the applicable form(s), will automatically be sent to the IAEA through the online platform.

NOTE: The application for financial support should be made, together with the submission of the application, by **5 February 2027**.

For additional information on how to apply for an event, please refer to the InTouch+ Help page. Any other issues or queries related to InTouch+ can be sent to InTouchPlus.Contact-Point@iaea.org.

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. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate. Further information can be found in the Data Processing Notice concerning IAEA InTouch+ platform.

Papers and Presentations

The IAEA encourages participants to give presentations on the work of their respective institutions that falls under the topics listed above.

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, together with the submission of the application, by **5 February 2027**.

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

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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.