



Regional Workshop on Experiences Related to Applications of Level 2 and Level 3 of Probabilistic Safety Assessments (PSAs)

Hosted by

The Government of the Republic of Armenia

through the

The Armenian Nuclear Regulatory Authority (ANRA)

Yerevan, Republic of Armenia

10 - 14 July 2023

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Information Sheet

Purpose

The purpose of the event is to discuss and share with the participants state-of-the-art approaches on development and application of Level 2 and Level 3 of Probabilistic Safety Assessments (PSAs). Special emphasis will be given to existing experience and best practices in the area and application of results and outcomes of Level 2 and Level 3 PSA studies for Nuclear Power Plants (NPPs).

Furthermore, during the workshop it is planned to discuss the available national experience in the area of Level 2 and Level 3 PSA applications for various aspects of NPPs designs and operations, such as optimisation of design solutions, design modifications, development of severe accident management guidelines and measures, as well as emergency planning.

Working Language

The working language of the event will be English.

Deadline for Nominations

Nominations received after **17 April 2023** will not be considered.

Project Background

The project is designed to assist Member States (MSs) in the Europe and Central Asia region in building capacities in severe accident management and analyses of off-site consequences, which is critical in terms of protecting people and environment against the harmful effects of ionizing radiation.

The project is directly related to nuclear technology and is devoted to the topic of severe accidents at nuclear installations and potential releases. The project will foster the implementation of the recommendations stated in relevant IAEA Safety Standards (e.g. Specific Safety Guides (SSG)-54, SSG-3 and 4) on use of risk information for the purposes of severe accident management.

Scope and Nature

The overall objective of the regional workshop is to address the specifics of the implementation of Level 2 and Level 3 PSA studies as well as wide range of Level 2 and Level 3 PSA applications, covering both regulatory and utility implications. In addition, it is planned to discuss the current practices and challenges in the area of decision making using the outcomes of the off-site consequence risk analysis derived from PSA studies.

The workshop will consist of presentations given by IAEA staff and invited experts, as well as national presentations provided by workshop participants. In addition, it is planned to organize a panel discussion related to the development and application of Level 2 and Level 3 PSAs.

Given the nature of the Level 2 and Level 3 PSA, it is planned to specifically focus on risk-informed applications related to severe accident management (both design and procedural aspects), off-site consequence analysis and emergency planning. National presentations and technical discussions on available national experiences and current challenges in the topical area of the event are specifically encouraged.

Furthermore, specific emphasis is planned to be put on the specifics connected with the new reactors, where application of Level 2 and Level 3 PSA risk metrics are considered to be more appropriate.

Expected outputs

The expected outputs of the regional workshop are:

- Exchange of information on international and national practices and experience in the area of the development and application of Level 2 and Level 3 PSA applications.
- Gained knowledge among the participants about practical approaches for application of off-site consequence risk analysis results for various aspects of NPP design and operation.
- Identified challenges faced by the Member States in development and practical application of Level 2 and Level 3 PSA models.

Participation

The workshop is open to up to 30 participants from TCEU Member States participating in the regional TC project RER/9/160 and that operate Nuclear Power Plants (NPPs) or are embarking countries with advanced NPP program.

Participants' Qualifications and Experience

The nominees for the regional workshop should be representatives of regulatory bodies, operating organizations, design organizations, technical support organizations, research or governmental institutes and industry, actively involved in the area of safety assessment and relevant decision-making process. The participants should have a background in PSA, PSA applications and/or integrated Risk Informed Decision Making and have several years of experience. Participants of the workshop will be requested to make a presentation on their national experience and approaches used in the event subject areas.

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. Search for the relevant technical cooperation event (**EVT2301517**) 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.

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.

Should online application submission not be possible, candidates may download the nomination form for the meeting 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.

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.

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 he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in approving his/her 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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