



IAEA

International Atomic Energy Agency

Korea Institute of Nuclear Safety (KINS)
Arab Network of Nuclear Regulators (ANNuR)
Asian Nuclear Safety Network (ANSN)
Forum of Nuclear Regulatory Bodies in Africa (FNRBA)

Joint IAEA-KINS International Workshop on Siting Evaluation for Nuclear Facilities

Hosted by the
Government of the Republic of Korea

through the
Korea Institute of Nuclear Safety

Daejeon, Republic of Korea
16-20 April 2018

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Prospectus

A. Introduction

Siting and site evaluation are a crucial part of establishing the programme for nuclear facilities, due to the interconnectivities between site features and facilities conditions. Thus, to evaluate the adequacy of a proposed site for nuclear facilities, a systematic approach based on multidiscipline reviews is necessary.

In support of the embarking countries on nuclear facilities from the regional safety networks members of ANNuR, ANSN and FNRBA of Arab, Asia and Africa, respectively, this international workshop is to be designed and implemented in cooperation with the International Nuclear Safety School (INSS) of Korea Institute of Nuclear Safety (KINS) towards transmitting the technical knowledge and experience for evaluating the site of nuclear facilities.

The IAEA and KINS jointly implement this workshop as part of their annually planned activities in accordance with the cooperation mechanisms among the ANNuR, ANSN, FNRBA, IAEA and KINS. The mechanisms include the Practical Arrangement between KINS and the Department of Nuclear Safety and Security of the IAEA in 2008, including the ANSN activities under the Topical Group on Education and Training, the Memorandum of Understanding (MOU) between KINS and ANNuR, and the MOU between KINS and FNRBA in 2010.

For the workshop, the IAEA and INSS, KINS will develop training programmes, texts and teaching tools based on their technical expertise in the area of nuclear safety regulation for siting evaluation for nuclear facilities. The instructors from both sides will deliver the programme topics.

B. Objectives

This workshop is intended to provide the practical knowledge and information necessary to evaluate a site for nuclear facilities with respect to:

- The effects of natural or human induced external events occurring in the site region;
- Characteristics of the site and its environment that could influence the transfer of released radioactive material to people and the environment;
- The population density and population distribution and other characteristics of the external zone in so far as they may affect the possibility of implementing emergency measures and the need to evaluate the risks to individuals and the population.

The workshop will also be a benchmarking opportunity towards global safety harmonization, providing a forum for the participants to discuss their national practices and to exchange their experience related to the subjects covered, as well as to identify good practices and areas that need improvement with regard to regulatory competence in siting.

C. Target Audience

Candidates should be professional staff members of nuclear safety regulatory bodies or technical support organizations, and have a science or engineering degree, preferably related to siting or correlated academic areas.

As the workshop will be conducted in English, participants should have sufficient proficiency to follow lectures and express themselves in that language without difficulty.

The total number of participants will be limited to forty (40) from the three (3) regional safety networks of ANNuR, ANSN and FNRBA. The nature and scope are primarily oriented to junior professionals, and nominees from embarking countries on nuclear facilities will take precedence over the other candidates.

D. Working Language

The working language of the workshop will be English.

E. Structure

Major activities of the workshop consist of lectures by KINS or the IAEA instructors, focusing on the contents related to the site evaluation for nuclear facilities.

The basic knowledge will be of those of the IAEA safety standards, and the regulatory practices of Korea will be introduced as the practical knowledge and experience.

The major contents come from the following standards, but not limited to:

- IAEA Safety Standards Series No. NS-R-3 (Rev. 1), Site Evaluation for Nuclear Installations
- IAEA Safety Standards Series No. NS-G-3.1, External Human Induced Events in Site Evaluation for Nuclear Power Plants
- IAEA Safety Standards Series No. NS-G-3.2, Dispersion of Radioactive Material in Air and Water and Consideration of Population Distribution in Site Evaluation for Nuclear Power Plants
- IAEA Safety Standards Series No. SSG-9, Seismic Hazards in Site Evaluation for Nuclear Installations
- IAEA Safety Standards Series No. SSG-18, Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations
- IAEA Safety Standards Series No. NS-G-3.6, Geotechnical Aspects of Site Evaluation and Foundations for Nuclear Power Plants

F. Application Procedure

Prospective participants from the Asian Nuclear Safety Network (ANSN) member countries should first apply through the ANSN website (<https://ansn.iaea.org>). Participants from the Arab Network of Nuclear Regulators (ANNuR) and the Forum of Nuclear Regulatory Bodies in Africa (FNRBA)

should send their nomination forms to the IAEA Project Management Officer, Mr Woon Kap Cho, via email to: W.K.Cho@iaea.org.

If requested by their national authorities, the completed Nomination Forms should then be endorsed by these authorities and returned through the established official channels (e.g. Ministry of Foreign Affairs, National Atomic Energy Authority, or office of the United Nations Development Programme).

They must be received at the IAEA, Vienna International Centre, PO Box 100, 1400 Vienna, Austria, not later **than 16th February 2018**.

Nominations received after that date or applications which have not been routed through one of the aforementioned channels cannot be considered.

In case of technical problems with the online nomination system, nominations may also be sent to the IAEA Project Management Officer, Mr Woon Kap Cho, via email to: W.K.Cho@iaea.org, copied to the IAEA's official email address (Official.Mail@iaea.org), or via fax: +43 1 26007.

The email should contain the following basic information about the candidate(s): name, age, gender, academic qualifications, present position (including exact nature of duties carried out), proficiency in English, and full working address (including telephone and fax numbers and email address) to enable the IAEA to carry out a preliminary evaluation of the candidate(s).

G. Arrangements

Nominating Governments will be informed in due course of the names of the selected candidates and will at that time be given full details of the procedures to be followed with regard to administrative and financial matters.

The IAEA will provide participants with a travel allowance. The host organizer, KINS, will provide the participants with accommodation, food and minor incidental expenses.

The copying and shipping of accumulated workshop materials to the participants' home countries do not fall under the responsibility of the IAEA and the host organizer.

The organizers of the workshop 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 workshop and its related activities, and it is clearly understood that each Government, in nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

H. Venue

The workshop will take place at the INSS, KINS, Daejeon, Republic of Korea.

I. Organization

IAEA Project Management Officer:

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Subsequent correspondence from the participants on scientific matters should be sent to the IAEA Project Management Officer and correspondence on other matters related to the workshop to the IAEA Project Assistant.

J. GNSSN and ANSN Website

Please visit the GNSSN and the ANSN website regularly for new information regarding this workshop:

<https://gnssn.iaea.org/main/pages/default.aspx>

<https://ansn.iaea.org>



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