# **Summary Report**

#### **ANSN Topical Group on Education and Training**

# IAEA-KINS Basic Professional Training Course on Nuclear Safety

Daejeon, Republic of Korea, 19 – 30 September 2022

Ref. No.: EVT1905199

# Background

The IAEA's Basic Professional Training Course (BPTC) for Nuclear Safety is intended to provide a broad overview of all the safety concepts and their application to the design and operation of nuclear power plants and research reactors. This workshop is being implemented in cooperation with the International Nuclear Safety School (INSS) of the Korea Institute of Nuclear Safety (KINS) in the Republic of Korea.

In accordance with the Practical Arrangement between KINS and the Department of Nuclear Safety and Security of the IAEA, concerning cooperation on nuclear safety matters, in 2008, each year the INSS hosts several training courses within the framework of the Asian Nuclear Safety Network (ANSN). KINS also signed MOUs with Arab Network of Nuclear Regulators (ANNuR) and with Forum of Nuclear Regulatory Bodies in Africa (FNRBA) in 2010, which are the basis of providing training courses to the two networks.

To strengthen the framework for global nuclear safety, KINS is expanding the scope of training from a region-based to a topic-based that mainly addresses common issues across regional networks. As part of these efforts, KINS continues to expand its training target countries, and ANNuR and FNRBA members as well as ANSN members are invited to this workshop.

For the workshop, the INSS develops training programmes, texts and teaching tools based on the technical expertise of KINS staff in the area of nuclear safety regulation and the INSS lecturers will mainly deliver the agenda topics to be developed later.

#### **Objectives**

The course is intended to provide a broad overview of all the safety concepts and their application to nuclear power plants and research reactors. Its nature and scope are primarily oriented to junior professionals in nuclear safety-related activities, but also appropriate for the trainers who want to teach their staff and the specialized professionals who want to expand their view on nuclear safety.

# Work Done

The 2022 IAEA-KINS Basic Professional Training Course was attended by thirty-three participants from eighteen Member States (Algeria, Bangladesh, Burkina Faso, Cote D'Ivoire, Egypt, Ethiopia, Ghana, Indonesia, Jordan, Kenya, Malaysia, Nigeria, Philippines, Saudi Arabia, Singapore, South Africa, Thailand, and Viet Nam) of the ANSN, ANNuR, and FNRBA. Most participants were professional staff members of nuclear safety regulatory bodies or technical support organizations that operate nuclear power plants or research reactors or has a construction plan.

Major achievements include;

- Participants from three regional networks, such as ANSN, ANNuR, FNRBA shared their country's national status related to nuclear safety and exchanged experiences and lessons-learned with participants from other countries.
- Hosting country, Korea, shared practical regulatory knowledge and experiences which has been accumulated through long experience of regulatory activities on designing, constructing and operating of nuclear power plants.
- Participants have strengthened their capability for nuclear safety through knowledge and experience sharing of nuclear safety. The main topics covered at this meeting are;

IAEA Safety standards, Quality Assurance, Site evaluation, Decommissioning, Design of Nuclear Reactor, Accident management, Radioactive waste management, Emergency Preparedness and Response, Safety Analysis, Radiation protection, Human factors, etc.

# Workshop achievements / Recommendations

Participants have acquired of the overall concept of safety concepts applicable to nuclear power plants at the meeting and acknowledged that the objectives of the meeting have been achieved.

Additional perspectives of participants to improve the effectiveness of this meeting were as follows;

- Having more technical visits to nuclear facilities and more opportunity of field training,
- Having more time to discuss and share knowledge and experience on nuclear safety among participants,
- Building and maintaining a professional human network after the meeting,
- Having more group activities on specific technical topics for nuclear and radiation safety.

# Further document to be submitted to the PMO separately:

- a) Final agenda
- b) Attendance Sheet
- c) Group photos
- d) Presentations as listed in the agenda
- e) 1-page summary for GNSSN Newsletter



This project is conducted by the IAEA, with funding by the Republic of Korea, among others.