

REGIONAL WORKSHOP ON SITE EVALUATION FOR SMALL MODULAR REACTORS HAIKOU, CHINA

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The Regional Workshop on Site Evaluation for Small Modular Reactors (SMR) was held on 6th – 10th November 2023 at Baohua Harbour View Hotel, Haikou, China. The Asian Nuclear Safety Network (ANSN) event is hosted by the Government of China through the Nuclear and Radiation Safety Center (NSC) with the support of the International Atomic Energy Agency (IAEA).

The workshop was attended by 22 participants from seven countries including Bangladesh, Indonesia, Malaysia, Thailand, Vietnam, Korea and China. Malaysia was represented by two attendees, one from the Malaysian Nuclear Agency and the other from Atomic Energy. Three members of IAEA experts team conducting the workshop were Mr. Ayhan Altinyollar (Nuclear Safety Officer, IAEA), Mr. Mazhar Mahmood (Consultant, IAEA) and Prof. Kemal Onder Cetin (External Expert, Turkiye).



Group photo of participants and IAEA experts.



Country Presentation.



Lecture sessions.

The objectives of the workshop are to enhance the understanding and competence of regulatory bodies and future operators with regard to site evaluation for SMRs as per IAEA safety standards and

supporting documents and member states practices. In general, the course consisted of lectures on SMRs vs Large Reactors siting and site characterization, practical progress on SMR siting of Member States and Management of site evaluation activities for SMRs. A trip to Changjiang nuclear Power Plant was arranged during the course. The journey takes about two and the half hours by bus from Haikou. Participants were given the opportunity to visit the SMR model at the Popular Science exhibition of nuclear power plant and the SMR engineering site.



Visit to the SMR Engineering Sites.



Briefing on SMRs Site Selection and Evaluation in China at China National Nuclear Corporation (CNNC).

Final agenda of the event was the ANSN Siting Topical Group (STG) Meeting chaired by Ms. Park Seonjeong of Korea. Climate change and more specific topics on site evaluations for SMR were proposed to be the theme for the next meeting. The next hosting country was also determined in the meeting.



ANSN Siting Topical Group (STG) Meeting.

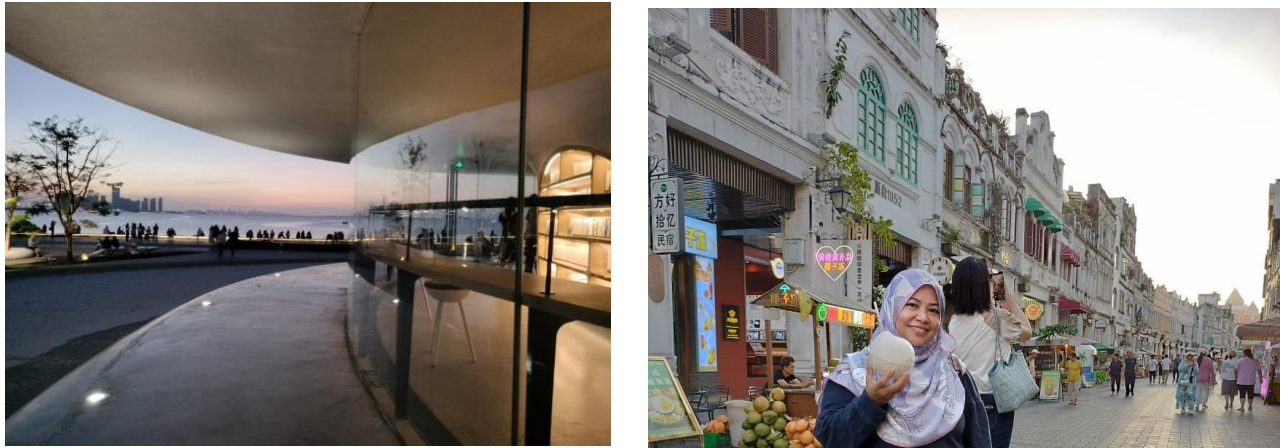
IAEA safety standards series related to site selection, site evaluation, design and safety evaluation for an advance reactor and nuclear installations, considering site specific challenges to reactor safety and radiological risks in case of an accident including all external hazards, monitoring activities and site-specific parameters relevant for the safety of the nuclear installation. A graded approach should be applied in determining the scope of the site evaluation, proportion with the radiation risk posed to people and the environment. Recent progress in the development of advance reactors such as SMR emphasized the need for additional and / or updated guidance to comply with requirements provided in the IAEA safety standards series.

This regional event introduced the IAEA requirements, guidance and supporting documents in the area of site evaluation for SMRs. Through the sharing of experience from the IAEA experts and the member states, participant had a clear and deep understandings about the site evaluation for SMRs. The excursions to nuclear facilities and engineering sites were well- organized, resulting in a remarkable

experience in which all participants had the opportunity to tour the 'under construction' nuclear installation. The participants were also enjoyed the beautiful scenery of Haikou city and local delicacies especially the coconut drinks.



Haikou City Highlight.



Haikou City Tour Highlight.