

EARTH-M kick off Meeting



AELB, MNA, UNITEN and TNB agencies attending EARTH-M kick off Meeting

IAEA has been assisting Malaysia in developing its capability in nuclear safety assessment through Norwegian Extra Budgetary Programme (IAEA-NOKEBP) since 2011. Initial stage of programme involves learning an in-depth theoretical part of safety assessment through classroom methodology. To ensure continuous sustainability and coherent knowledge transfer, the programme has been expanded to further step by introducing a mentoring programme. The two years mentoring project, known as **Expertise Development Thorough The Analysis of Reactor Thermal-Hydraulic For Malaysia (EARTH-M)** has been initiated with prime focuses of developing competency in the field of Deterministic Safety Assessment (DSA) methodology for safety analysis of nuclear research reactor using RELAP5-3D[®] computer code and provides extensive transferrable skills to evaluate the nuclear installation safety. In addition, this project provided an insight to the IAEA on the effectiveness of the IAEA training programme on DSA.

A kick off meeting of EARTH-M was conducted on 14-17 April 2014 at AELB and Malaysian Nuclear Agency (MNA) with participation from various related organizations.

The meeting was officially opened by Mr. Hamrah Mohd Ali (Director General of AELB) and Ms. Irina Sanda (Safety Assessment Section, IAEA). Throughout 4-days meeting, 7 presentations were delivered by IAEA experts specifically about importance of DSA application in licensing process, the structure of preparation for Safety Analysis Report (SAR) for research reactor as well as Probabilistic Safety Assessment (PSA) results as an input for DSA analysis. The meeting also had agreed the initial proposal and work plan which consist of 42 key activities needed to be performed within 2 years period.

IAEA-ANSN/GRITG Regional Workshop on Regulatory Approaches Needed for the Deployment of a Country's First Nuclear Power Plant Project

An effective and comprehensive regulatory framework and establishment of independent regulatory body are the major component in the nuclear safety infrastructure. On thought of that, for the purpose of regulatory enforcement, various kind of regulatory approach, performance based, prescriptive based, or combination of both approaches should be considered at the beginning stages of licensing of Malaysian first nuclear power programme. Therefore, total of eleven delegates mostly from embarking countries were invited to Regional Workshop on Regulatory Approaches Needed for the Deployment of a Country's First Nuclear power Plant Project on 19-23 May 2014 at AELB Headquarters, Dengkil. The workshop has successfully hosted by AELB under the framework of Asian Nuclear Safety Network (ANSN) of International Atomic Energy Agency.

The objective of the workshop is to provide assistance to member countries with information and experiences sharing toward various kinds of regulatory approaches are



Participants in the Regional Workshop on Regulatory Approaches Needed for the Deployment of a Country's First Nuclear power Plant Project, 19-23 May 2014.

potentially being practiced. The workshop participants expressed their agreements that each country may apply appropriate approaches that suit bests with their regulatory framework. During the first two days, participants were introduced with the IAEA safety standards that dealing with regulatory approaches and actual experience and example shared with international experts. Following next two days, group exercise and discussion were carried out to give better insights on regulatory approaches. Finally, each member country presented their current national policy and strategies for safety as agreed from the previous workshop conducted at Indonesia in 2013.

IAEA Workshop on Self Assessment Methodology and Tools Using SARIS Computer Software.



Discussion session between IAEA expert and participants during the workshop

On 5-7 March 2014, AELB has conducted a workshop for preparation of self-assessment of national safety infrastructure for safety using IAEA SARIS software. The national level workshop was conducted in conjunction to previous workshop of Self Assessment for the Integrated Review of Infrastructure for Safety” (IRIS) held on 16-18

Disember 2013. The workshop aimed to introduce IAEA SARIS software for self-review and assessment of national nuclear safety infrastructure against the IAEA safety guide SSG-16 titled “Establishing the Safety Infrastructure for a Nuclear Power Programme” and IAEA GSR Part 1 “Governmental, Legal and Regulatory Framework for Safety”. In addition to that, for the preparation of IAEA Integrated Regulatory Review Service (IRRS) planned in 2015, this workshop provided a platform for development of human competency from related agencies to familiar and competent to this methodology.

About 30 participants from nine relevant authorities and stakeholders such as Ministry of Science, Technology and Innovation, Malaysian Nuclear Power Corporation (MNPC), Malaysian Nuclear Agency (MNA), National Security Council, Department of Environment, Malaysian Royal Police, Ministry of Housing and Local Government actively involved in this workshop.

Regional Meeting on Strengthening an Effective Compliance Assurance Regime for the Safe Transport of Radioactive Material

Rapid growths of radioactive materials and sources based industry and medicine concurrently increases of transportation demand to support the activities. With the transportation operation growth in the region, effective regulations and compliance assurance with national and international requirements are needed as key success to ensure safe transport of radioactive materials. Due to importance to comply with the requirement while enhance the effectiveness of current legislation and regulations, a regional meeting under the Technical Cooperation (TC) Project RAS/9/067 “Strengthening an Effective Compliance Assurance Regime for the Safe Transport of Radioactive Material” funded by the European Commission, was held at Atomic Energy Licensing Board (AELB) Headquarter in Dengkil, Selangor, Malaysia from 26-30 May 2014. Under the RAS/9/067 project, the support provided is expected to reduce the weakness in the safe

transport of radioactive material and sources and to address the issue of delay of shipments of radioactive material and sources.

The main objective of the meeting was to review the status of compliance with IAEA regulations for the safe transport of radioactive material and sources in the region specifically emphasis on the progress made in 2012-2013 previous meeting. Besides that, each member state was required to update country-Specific Action Plan, based on the identified priorities and national commitment as well as on the agreed IAEA input for the project implementation in 2014-2015 cycles.

The five days meeting was attended by representatives from Bahrain, Bangladesh, China, Indonesia, Iran, Iraq, Jordan, Malaysia, Mongolia, Myanmar, Nepal, Pakistan, T.T.U.T.J. of T. Palestinian A., Philippines, Qatar, Sri Lanka, Thailand and Yemen. During this meeting, participant are invited actively engaged in a discussion and also introduced IAEA Approach to Strengthen National Compliance Assurance Regime for the transport of radioactive material, Radiation Safety Management Information System (RASIMS) and key elements of Thematic Safety Area (TSA) 7 -Transport Safety.

The participant provided very positive feedback, fifteen member states presented their specific action plans to improve the gaps in the area of transport safety. Seven out of twelve key elements had been identified as a regionally priority and action plans were agreed upon to strengthen the compliance assurance regime for transport safety.



Participants in the Regional Meeting on Strengthening an Effective Compliance Assurance Regime for the Safe Transport of Radioactive Material, 26-30 May 2014.

Regional Workshop on Long Term Issues Following a Nuclear or Radiological Emergency and Annual Meeting of the Topical Group in Emergency Preparedness and Response.

Atomic Energy Licensing Board, under the Emergency Response and Preparedness Topical Group (ERPTG) in framework of Asian Nuclear Safety Network (ANSN) of International Atomic Energy Agency (IAEA) has successfully organized the Regional Workshop on Long Term Issues Following a Nuclear or Radiological Emergency and Annual Meeting of the Topical Group in Emergency Preparedness and Response, which took place on 9-13 June 2014 in Dengkil, Selangor. The workshop aimed to provide guidance to ANSN Member States for emergency arrangements to be in place for termination of an emergency phase and concurrent transition to an existing exposure situation and/or returning to a planned exposure situation. The event included 15 representatives from member countries such as Bangladesh, China, Indonesia, Philippines, Vietnam, Thailand, Malaysia, Japan and other 16 different field of local participants.

Workshop session was started with experience sharing about Fukushima and Chernobly accident delivered by IAEA staff

and external expert respectively. Series of lectures and discussions were conducted based on updated IAEA training modules. The workshop provided a platform to discuss and experiences sharing between participants for better lesson learned in deployment of international cooperation teams such as provided by IAEA. In addition to that, each country also presented their current national status on preparation on emergency response and preparedness capability.

At the second part, two days annual meeting between topical groups was chaired by Dr. Okuno Hiroshi. During the meeting, all members tabled and review their previous activities in 2013 and planned activities for next year (2014) for further improve and as well as planned activities for the topical group to be implemented in year of 2014. The group members also threw their intention to get continuous support under the ANSN network in order to develop capability of each member state.



Active discussion between experts and participants during the workshop.

Upcoming Events

11-15 August 2014	Workshop on Radioactive Waste Management Safety Assessment.
8-12 September 2014	IAEA-NOKEBP Technical Review Meeting on Probabilistic Safety Assessment Project RiskSpectrum.
7-10 October 2014	IAEA-ANSN/CTG Workshop for Senior Officials and Topical Group on Communication (CTG) Members on Legal and Regulatory Requirements Concerning Communication and Annual Meeting of the CTG and Consultation with Interested Parties.
13-17 October 2014	IAEA-ANSN/ETTg Regional Workshop on Nuclear Safety Tailored for Regulators.
3-7 November 2014	IAEA-ANSN/ETTg National Workshop on Education and Training Review Service (ETReS).
17-21 November 2014	IAEA-ANSN/ETTg National Workshop on Education and Training Review Service (ETReS).



Published by:

Atomic Energy Licensing Board(AELB)

24 Miles, Jalan Dengkil, 43800 Dengkil, Selangor, Malaysia

Website :

www.aelb.gov.my

Copyright notice: All photos in this newsletter are copyrights of AELB, All the images are not allowed to be used or reproduced in any form or by any means without prior written permission from AELB.