

### AELB-KINS Safety Review Workshop on Reactor Digital Instrumentation and Control System (ReDICS) Upgrading Project



*Director of Nuclear Installation Division together with members of project committee*

The safety review workshop was organized by Korea Institute of Nuclear Safety (KINS) in Daejeon, Korea on 6-8 February 2013. This workshop was attended by representatives from Atomic Energy Licensing Board (AELB), Malaysia Nuclear Agency and led by four KINS experts. The objective of the workshop was to present the AELB's technical review and evaluation towards the implementation of modifications of newly designed reactor digital instrumentation and control systems (ReDICS) from its current analog systems. The technical evaluation was carried out in consistence with IAEA safety requirements and AELB safety standard LEM/TEK/53, taking into accounts the best practices and recommendations of KINS. The AELB's technical evaluation and its findings was documented in preliminary Safety Evaluation Report (SER), in which it is also has been discussed during the workshops. The final SER

was used as a basis for AELB regulatory decision making process before the Construction Approval is issued to Malaysia Nuclear Agency. In conjunction to the safety review workshop, the exchange ceremony of Record of Discussion (ROD) for the AELB-KINS Safety Review Project of ReDICS was took place. The ROD has been signed and exchanged between Mr

Sang-Yun Kim, Director of Research and Policy Division, KINS and Mr. Mohd Pauzi Mohd Sobari, Director of Nuclear Installation Division, AELB. The ROD encompassed overall activities that have been agreed to be implemented by AELB with assistance of KINS experts to ensure the successful, comprehensive regulatory review towards the implementation of the ReDICS upgrading project. The ROD was prepared during the AELB-KINS Preparation Meeting of ReDICS Project at AELB on 14 and 15 August 2012.



*Exchange Record of Discussion for ReDICS Project between AELB and KINS*

## Workshop On Developing National Capacity In Islamic Republic Of Afghanistan Response To A Nuclear Or Radiological Emergency

This workshop was hosted by AELB in cooperation with IAEA, and held at the AELB headquarters in Dengkil on 18-22 March, 2013. The purpose of this workshop was to develop the capabilities and expertise of relevant bodies in the Islamic Republic of Afghanistan for response to a nuclear and radiological emergency. A total of ten delegates from Afghanistan were took part in this workshop. IAEA also has provided an opportunity for local participants from relevant agencies to participate in this workshop. Nine participants from various local agencies namely Malaysian Nuclear Agency, Malaysia Fire and Rescue Department, Malaysian Armed Forces, Ministry of Health and also AELB officers attended the workshop. The

lectures were delivered by IAEA experts. During this workshop, various issues related to enhance the response capacities during nuclear and radiological emergency were actively discussed by the delegates from Afghanistan with the experts.



Participants of the workshop with Director General of AELB ; Y.M. Raja Dato' Abdul Aziz Raja Adnan and the IAEA's Expert

## AELB-KINS Quality Assurance (QA) Audits On Reactor Digital Instrumentation And Control System (ReDICS) Upgrading Project

The quality assurance audits was held in Daejeon, Korea on 1-5 April, 2013 and attended by representatives from AELB, Malaysia Nuclear Agency, Korea Nuclear Technology (KNT), Korea Atomic Energy Research Institute (KAERI), along with experts from Korea Institute of Nuclear Safety (KINS). The objective of this audits was to ensure the supplied components and systems are complied with the requirements specified under the Act 304 and its subsidiary regulations.

In five-day visit, the representatives have visited the KNT, KAERI and RTP Company for the purpose of QA audits. The audit was performed based on the quality assurance manual and specified procedures that have been prepared and implemented. In addition, fabrication and designing stage of structures,

systems and components of ReDICS project are important to be examined in order to make sure the quality of modifications are following its technical specification. As a result, several recommendations have been proposed during the following wrap-up meeting.



The representative's of AELB during the QA audits in Daejeon, Korea

## Regional Workshop On The Demonstration Of Safety Of Radioactive Waste Disposal Facilities



*Group photo of participants and observers together with the Experts from IAEA*

**A**ELB has been selected by the IAEA - ANSN to organize the regional workshop on demonstration of safety of radioactive waste disposal facilities. Twelve participants from Republic of Korea, Bangladesh, Thailand, Philippine, Vietnam, Indonesia and also Malaysia were took part in this workshop that held at the AELB headquarters in Dengkil on 17-21 June 2013. Besides that, various agencies such as Malaysia Nuclear Agency, Ministry of Health and Malaysia Nuclear Power Corporation were also invited to participate in the capacity as observers. The purpose of the workshop was to build and strengthen capacities in the development and demonstration of safety of radioactive waste disposal facilities as well as focusing on the safety case and safety

assessment development by the operator and its review by the regulator. During the workshop, all the participants and observers were given the exercises which aims to enhance the understanding of the lectures. The participants were also made the presentation on their national situations regarding the development of radioactive waste disposal facilities and their experience and approach to demonstrating the safety of disposal facilities in their countries.





## 2nd Technical Review Meeting On The Compass-M Project: 'Applying PSA To Existing Facilities To Develop Transferable Skill-In The Use Of PSA To Evaluate NPP Safety'

This meeting was jointly organized by AELB - IAEA at AELB headquarters in Dengkil on 3-7 June 2013 and attended by members of the project committee from Malaysian Nuclear Agency (MNA), Malaysia National University (UKM), and AELB, along with experts from IAEA. The objective of this meeting was to reviewed and discussed on the PSA scope that to be covered within the project as well as the progress of COMPASS-M Project in terms of tasks, deliverables, terms, meetings, responsibilities and others. The project involved the collaborating experts from the regulatory body, nuclear research organization and universities in establishing state-of-the-art competence of the Malaysian specialists for Probabilistic Safety Assessment (PSA) of Nuclear Power Plants (NPPs). The main focus of

this project is to master the PSA technology for safety assessment of NPPs through the practical application on the basis of the relevant IAEA Safety Standard in order to develop a PSA model for the research reactor in Malaysia. The use of PSA model is to perform a detailed analysis of the identified dominant accident sequences and produce a PSA report.



Members of project committee together with IAEA's experts

### Upcoming Events

- 17-21 June 2013 Regional Workshop on the Demonstration of Safety of Radioactive Waste Disposal Facilities, Dengkil, Malaysia
- 26-30 August 2013 Regional Workshop on essential knowledge of site evaluation report for NPPs, Kuala Lumpur, Malaysia
- 22-27 September 2013 Workshop on Commissioning of ReDICs Upgrading Project, Dengkil, Malaysia
- 11-15 November 2013 National Workshop on Conducting Self-Assessment using AEA SARIS Tools, Dengkil, Malaysia



Published by:

Atomic Energy Licensing Board (AELB)  
24 Miles, Jalan Dengkil, 43800 Dengkil, Selangor, Malaysia  
Tel: 603 - 8922 5888 Fax: 603 - 8922 3685

Website :

[www.aelb.gov.my](http://www.aelb.gov.my)  
[ansn.aelb.gov.my](mailto:ansn.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.