

ALARA Symposium

2013 ISOE International ALARA Symposium

The 2013 ISOE International ALARA Symposium, organized by the Asian Technical Center, was held 27-28 August 2013 in Tokyo (Japan), and attended by an audience of about fifty participants from OECD/NEA, IEAE and eleven countries including Brasil, China, France, Germany, Republic of Korea, Pakistan, Russia, Spain, Sweden, USA and Japan.

Japan and USA provided lessons learned from the Fukushima accident and TMI accident, respectively. TEPCO (Tokyo Electric Power Company) introduced the present situation of the Fukushima Daiichi NPP site, the current decontamination activities and mid- and long-term decontamination plan. Moreover, the CANBERRA Industries introduced the experience which was involved in the response to the Fukushima accident from immediately after the accident.

Among these presentations, "Cook Critical RP Survey Program." by Mr. Robert Hite, Cook Nuclear Plant Radiation Protection Manager of American Electric Power was selected as a distinguished paper. He mentioned the importance of systematic approach to radiation protection program information capture. The distinguished paper will be invited to be presented at the 2015 ISOE International ALARA Symposium in Brasil.



In connection with the symposium, the participants had the opportunity to participate a technical visit in Fukushima Dai-ichi NPP on the 29th of August, 2013. They observed the inside of the site where restoration from an accident is advanced by yard bus of TEPCO wearing the protective clothing and half-face mask. The damaged truck, the large-sized leaning strage tanks, the transmission line tower that collapsed, etc. were still left.

The route of site tour included

- Reactor water injection pump, Treatment water storage tank
- Site for multi-nuclide removal equipment
- Control room for contaminated water processing device
- Appearance of Unit 1 - 4
- Unit 4 Reactor Building
- Ocean side equipment of the Units 1- 4 , 5 and 6
- Emergency Care Room, Units 5/6
- Emergency diesel generator 6B
- Site of Yonomori Transmission Line Tower collapsed by the earthquake



Contents

Plenary Session

Title	Speaker	Contents	
Fukushima Countermeasures and Benchmarking Visits	Wataru Mizumachi JNES, Japan		Presentation
Lessons Learned on Management of Worker Dose During the TMI-2 Accident/Recovery Phases	David W. MILLER Cook NPP, USA		Presentation
Radiation Measurement Experiences and Lessons to be Learned in Response to the Fukushima NPP Accident	Frazier BRONSON CHP, Canberra Industries, USA	Summary 	Presentation
Mid-to-long Term Policy for on site Decontamination and the performance	Toru Furukawa TEPCO, Japan	Summary 	Presentation

Session2

Title	Speaker	Contents	
ISOE Programme -Recent Activities-	Halil Burcin OKYAR OECD/NEA	Summary 	Presentation
Analysis of Collective Dose Trends using ISOE Database	Lucie D'ASCENZO CEPN/ISOE ETC, France	Summary 	Presentation
Analysis on Occupational Exposure of Radiation Workers in Korea by KISOE	Byeong-Soo KIM KINS, Korea	Summary 	Presentation
Introduction to Optimization in Occupational Radiation Protection for Nuclear Power Plants in China	Xiong XIAOWEI NSC, MEP / NNSA, China	Summary 	Presentation

Session3

Title	Speaker	Contents	
Cook Critical RP Survey Program	Robert HITE Cook NPP, USA	Summary 	Presentation
US PWR and BWR Experience in Reducing Critical Path, by Reducing Radiation Source Term	Patricia ROBINSON NP Energy, USA	Summary 	Presentation
Angra 1 & 2 - ALARA Program Successes & Future Initiatives	Marcos Antonio Do Amaral Ietrobras Eletronuclear, Brazil		Presentation
Radiation Safety Management for HANUL NPP Unit 4 Steam Generator Replacement	Lee Eung-II KHNP, Korea	Summary 	Presentation
Dose Reduction and Management during Overhauling of Reactor Coolant Pump at CHASHMA NPP-1.	Makshoof Ahmed MUBBASHER Manager Health Physics Division, C-1	Summary 	Presentation

Session4

Title	Speaker	Contents	
Integrated IT Radiation Management System in APR-1400	Jeong-Keun KIM KHNP, Korea	Summary 	Presentation
Development of KRMS and application of pilot project	Min Chul KIM KHNP Central Research Institute, Korea		Presentation
Polaris CdZnTe Gamma-Ray Imaging Spectrometer Systems	Zhong HE University of Michigan, USA	Summary 	Presentation
Self-disposition of styrofoam by using ISOCS (In-Situ Object Counting System)	Seul-ki KIM KHNP, Korea	Summary 	Presentation
Developments of Corrosion Resistant Fuel Cladding	James STUBBINS University of Illinois at Urbana-Champaign, USA		Presentation