

The Asian Workshop on Maintenance Technology for Nuclear Power Plant

Program

January 20, 2009

9:00- 9:10

Opening

Toshiyuki Takagi (Tohoku University, Japan)

Plenary Lectures

P1

9:10-9:50

The Trend of Studies on Effect of LWR Coolant Flow on Structural Integrity in Japan

Fumio Inada (Central Research Institute of Electric Power Industry, Japan)

P2

9:50-10:30

Status of Nuclear Power Industry and Related Maintenance Technologies in China

Zhenmao Chen (Xi'an Jiaotong University, China)

10:30-10:50

Coffee Break

P3

10:50-11:30

Current Status of Proactive Management of Materials Degradation (PMMD) Program in Korea

Joon-Hyun Lee (Pusan National University, Korea)

P4

11:30-12:10

Reliable and Enhanced ISI in Nuclear Power Plants through Conventional and Advanced NDE – Indian Experiences and Perspectives

B. Venkataraman (Indira Gandhi Centre for Atomic Research, India)

12:10-13:30

Lunch

OS1 On-site Advanced Maintenance Activities

OS1-1(Invited)

13:30-14:00

Korean Experience on PSR and PLiM in NPP

Tae-Ryong kim (Korea Electric Power Research Institute, Korea)

OS1-2

14:00-14:20

Current Statuses of Periodic Safety Review (PSR) and Plant Life Management (PLM) at Nuclear Power Plants in Japan

Hiroshi YASHIRO (Tokyo Electric Power Company, Japan)

- OS1-3
14:20-14:40 **Development of Inclined Bobbin Coil ECT Probe for Rapid Detection of Defects in Steam Generator Tube**
Young-Joo Kim and Seung-Seok Lee (Korea Research Institute of Science and Standard, Korea)
- OS1-4
14:40-15:00 **Steam Generator Secondary Side Cleaning at Tomari Power Station**
Naonobu Sasada (Hokkaido Electric Power Company, Japan)
- OS1-5
15:00-15:20 **Status and Current Issues of ISI in Korean Nuclear Power Plants**
J. P. Lee, C. J. Yim, M. K. Kim & J. S. Park (ANSCO, Inc., Korea)
- OS1-6
15:20-15:40 **Overview of Pipe Wall Thickness Management at Tohoku Electric Power**
Shinji AKIBA, Tanji, Tenma and Kawakami (Tohoku Electric Power Co., Inc, Japan)
- 15:40-16:00 **Coffee Break**

OS2: Advanced Inspection and Monitoring Techniques

- OS2-1(Invited)
16:00-16:30 **Research Activities regarding Non-destructive Techniques for Nuclear Power Plants in JNES**
Masahiro Otaka (Japan Nuclear Energy Safety Organization, Japan)
- OS2-2
16:30-16:50 **Development of Integrated NSSS Integrity Monitoring System**
Doo-Byung Yoon, Jin-Ho Park and Young-Chul Park (Korea Atomic Energy Research Institute, Korea)
- OS2-3
16:50-17:10 **Recent R&D Activities on Advanced NDE Technique and Inspection Methods for Nuclear Power Plants**
Tooru Ootsubo (Toshiba Corporation, Japan)
- OS2-4
17:10-17:30 **Future On-line Leakage Monitoring in Reactor Vessel CRDM/BMI Penetration**
Dong-Jin Yoon, Dea-Cheol Seo and Yong-Il Kim (Korea Research Institute of Science and Standard, Korea)
- OS2-5
17:30-17:50 **Condition Monitoring for Static Apparatus of NPPs: Role of Modeling and Simulation**
Fumio Kojima (Kobe University, Japan)
- OS2-6
17:50-18:10 **Model-Based Prediction of Phased Array Ultrasonic Beams in Dissimilar Metal Welds**
Sung-Jin Song (Sungkyunkan University, Korea)
- 18:20-20:00 **Banquet**

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OS3: Mechanism Study for Degradations of Structural Materials in NPPs

- OS3-1(Invited) **Visualizing Initiation Processes of Stress Corrosion Cracking**
9:00-9:30 Yutaka Watanabe, Ryo Ohtake, Kenta Sugimori (Tohoku University, Japan)
- OS3-2 **Residual Stress Simulations of Dissimilar Metal Welds for PWR Plants**
9:30- 9:50 Yun-Jae Kim (Korea University, Korea)
- OS3-3 **Effect of Plastic Pre-strain on Low Cycle Fatigue Strength of Materials in Nuclear Power Plants**
9:50- 10:10 Motoki Nakane (Hitachi Ltd., Japan)
- OS3-4 **IASCC Initiation Properties of Irradiated Cold Worked 316 Stainless Steel in PWR Primary Water**
10:10- 10:30 K. Takakura, K. Nakata (Japan Nuclear Energy Safety Organization, Japan), K. Sakima, K. Fujimoto and N. Kubo (Mitsubishi Heavy Industries, Ltd., Japan)
- OS3-5 **Nondestructive Evaluation of Material Degradation by Nonlinear Eddy Current Method**
10:30- 10:50 Tetsuya Uchimoto and Toshiyuki Takagi(Tohoku University, Japan)
- 10:50 **Summary**
Joon Hyun Lee (Pusan National University, Korea)
- 11:00 **On-site Session at Onagawa Nuclear Power Plant**
- 18:00 **Closing**