

International Nuclear Instructor Development Program in FY2006

“Reactor Plant Safety Course”

1. Purpose

Reactor Plant Safety Course (RPSC) was projected and launched from FY 2005 as one of the new training course in the International Nuclear Instructor Development Program offered by Ministry of Education, Culture, Sports, Science and Technology (MEXT) (consigned by Radiation Application Development Association; RADA) with the purpose of enhancing knowledge and technique related to nuclear plant safety as well as building up of safety culture in Asian countries.

The program implemented as one of the approaches to “human resource development and intercommunication” specified in the “Energy Research and Development Centralization Plan” promoted by Fukui prefecture. International Nuclear Information and Training Center (INITC) supported and collaborated with RADA from its planning to the implementation.

2. Duration : January 22 , 2006 ~ February 9, 2006

3. Participants : 8 participants (China; 3, Indonesia; 3, Thailand; 1, Vietnam; 1)

4. Program

Safety technologies on reactor plant system were delivered through 10 lectures, (ex. Guidelines for Safety Design of Nuclear Power Plant; NPP, Safety Evaluation of Reactor Plants, Safety Measures for NPP), practices (ex. Nuclear Practice at UTR-KINKI Reactor, In-service Inspection (ISI) Technology, Safe Handling of Reactor Coolant ;Sodium) and facility visits (ex. Fast Breeder Reactor ;FBR “Monju”, Mihama Power station (Kansai Electric Power Co., Inc.; KEPCO), Nuclear Emergency Response Operations Facility, Fukui Prefecture Environmental Radiation Research and Monitoring Center).

Intercommunication opportunity was provided through discussions on reports from participants introducing the status quo of nuclear energy development and its prospect in each country.

5. Evaluation

RPSC in FY2007 is consisted of program related 60 % to FBR field reflecting the safety course’s principle of “the safety technology training related to FBR”. However, participant from country or organization engaged directly in the fast reactor was only one person (China Experimental Fast Reactor) among eight participants.

Nevertheless, participants other than China became highly interested in the program and active training was carried out with constructive interactions.

Ardent attitude of participants was shown in the evaluation in the questionnaire carried out on the final day of the course; very good (56%); good (41%). In addition, planning and organizing of “Nuclear Energy Training (tentative name)” to develop nuclear engineers, researchers and students was proposed by participant from Indonesia aside from the RPSC in FY 2007 (the training expense will be borne by Indonesia).

This proposal associates with “reactor training centralization scheme in Asia”, which INITC aims at and expected to be the stepping stone to expand its international technical training range.

6. Lecture, Practice and Facility Visit



【Lecture】



【 Nuclear Practice at UTR-KINKI Reactor 】 【 Safe Handling of Reactor Coolant (Sodium) 】 【 In-Service Inspection (ISI) Technology 】



【 FBR "MONJU" 】



【 NPP Training Center, KEPCO 】



【 Discussion 】



【 Group Photo 】