

# **International Nuclear Instructor Development Program FY2007**

## **“Reactor Plant Safety Course”**

### **1. Purpose**

International Nuclear Instructor Development Program is public recruiting project offered by Ministry of Education, Culture, Sports, Science and Technology (MEXT) and aims at contribution to nuclear technique improvement and building up of nuclear safety culture in neighboring Asian countries. International Nuclear Information and Training Center (INITC) applied to the program collaborating with Tokai Research and Development Center, JAEA and consigned “Reactor Plant Safety Course” (RPSC) from MEXT. This course is one of the international technical training related to “human resource development and intercommunication” specified in the “Energy research and Development Centralization Plan” promoted by Fukui prefecture.

**2. Duration : January 21, 2008 ~February 8, 2008**

**3. Participants :8**

(China; 2, Indonesia; 2, Malaysia, Philippine, Sri Lanka, Bangladesh; 1)

### **4. Program**

Safety technologies of reactor plant system on light water reactor and fast reactor was delivered through 13 lectures (ex. Basic Concept of Nuclear Plant Safety, Guidelines for Safety Design of Nuclear Power plant; NPP, Safety Measures for NPP, Safety Evaluation of Reactor Plants), practices (ex. Nuclear Practice at UTR-KINKI Reactor, Safe Handling of Reactor Coolant; Sodium, Non-destructive Testing; NDT Technology) 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).

Human network building opportunity was also provided by introducing and discussing the status quo of each country’s nuclear energy development and its prospect.

### **5. Evaluation**

All of the eight participants answered RPSC was “very satisfying” or “very useful”. Although China is the sole country involved in fast reactor technology, all the participants became interested in the program greatly and active training was carried out with constructive interactions. The prime evaluation for the lectures on FBR among all lectures indicates their great interest.

On the one hand, following opinions were suggested for the improvement of the program.

- NDT technology practice is enough for one day ( 2days practice was carried out)
- Offering of lecture on safety culture of nuclear power plant
- Offering of lecture on quality assurance (QA)
- Offering of lecture on the process from siting to the construction of NPP

These beneficial opinions will be reflected on the next RPSC.

## 6. Lectures, Practice and Facility Visit



【Lecture】



【Discussion】



【UTR-KINKI Reactor】



【Safe Handling of Reactor Coolant (Sodium)】



【Monju Operator Training Simulator】



【FBR "Monju"】



【NPP Maintenance Training Center】



【Ohi Power Station】



【Group Photo】