

# International Nuclear Instructor Development Program in FY2008

## “Reactor Plant Safety Course”

### Winter Course

#### 1. Outline

The result of the Reactor Plant Safety Course (RPSC) in FY2008 (winter course) is reported which is implemented from FY2006 as one of the nuclear technique training for Asian countries at International Nuclear Information and Training Center (INITC), Japan Atomic Energy Agency (JAEA).

RPSC is consigned by applying for the International Nuclear Instructor Development Program offered by Ministry of Education, Culture, Sports, Science and Technology (MEXT). The course is recognized as one of the approach to the international technique training centralization scheme in Tsuruga region.

**2. Duration:** January 19, 2009 ~ February 13, 2009

**3. Countries and Participants:** 6 countries / 10 participants  
(Indonesia; 2, China; 3, Malaysia; 2, Thailand, Vietnam, Philippine;1)

#### 4. Program

The program is composed of “Lecture”, “Practice”, “Facility Visit” and “Discussion” to learn safety technique related to light water reactor (LWR) and fast breeder reactor (FBR) systematically.

◇”Lecture”: 18 lectures

Nuclear Safety Culture, Basic Concept of nuclear Power Plant (NPP) Safety, Safety design principle of NPP, Safety Measures for NPP, Safety Evaluation of Reactor Plants, Quality Assurance (QA), Emergency Preparedness and Response, Seismic Design of Reactor Plants, Japanese Fitness Code for Reactor Plant Service, Case study of Nuclear vents in Japanese NPP, Human Factors in NPP Accidents etc.

◇”Practice”: 4 practices

Nuclear Practice at UTR-KINKI Reactor, Monju Operator Simulator Training, Safe Handling of Reactor Coolant (Sodium), Nondestructive Testing (NDT) Technology; 3 practices.

◇ “Facility Visit”: 10 facilities

FBR “Monju”, Nuclear Emergency Response Operations Facility, Fukui Prefectural Environmental Radiation Research and Monitoring Center, Tsuruga Power station (construction site of No.3 and 4 reactors), Nuclear Power Training Center (NTC), Wakasa Wan Energy Research Center, Fugen Decommissioning Engineering Center, etc.

◇ “Discussion”: Public Acceptance of Nuclear Energy (PA)

#### 5. Overall Evaluation

All participants evaluated the course as “very useful” (level 5; highest evaluation). In the autumn course in FY2008, 70% of participants choose level 5 and the rest of them choose level 4. This winter course surpassed the previous evaluation and repletion of the autumn course was conformed.

This successful result comes from the attitude of JAEA to respond to the suggestions by participants presented in the questionnaire and to reflect them on the subsequent RPSC as much as possible.

This winter course acquired the highest evaluation form all participants. On the one hand,

some beneficial opinions were proposed for the fulfillment of the next RPSC.  
 ☆Request to offer new lecture on application for installation permission of NPP.  
 ☆Request to offer lecture on operation control technique (especially PWR).  
 ☆Request to offer lecture on decommissioning technology in addition to facility visit.  
 (The lecture is planned to be coordinated from sequent RPSC.)

## 6. Result of the Questionnaire

Questionnaire Items	5 Vey useful	4 Useful	3 Fair	2 Poor	1 Very poor
Usefulness ( Overall evaluation )	10				
Questionnaire Items	5 Very well	4 Well	3 Fairly	2 Poorly	1 Very poorly
Satisfaction level for the lecture	3	7			
Satisfaction level for the facility visit	8	2			
Communication Attainment	7	3			

## 7. Lecture, Practice and Facility Visit



【Lecture】



【UTR-KINKI Reactor】



【Monju Operating Training Simulator】



【FBR “Monju”】



【Nuclear Emergency Response  
Operations Facility】



【Nuclear Power Training Centre】



**【Discussion】**

**【Group Photo】**