

August 27, 2007

### Quick Look Report

- Travel Dates:** August 3 through August 19, 2007
- Location:** Beijing and Beidaihe, China
- Organization/Committee:** National Nuclear Safety Administration (NNSA) of the People's Republic of China
- Desired Outcome:** Provide technical training to the Chinese on the AP1000 design and the NRC's design certification review. This training program was the first cooperative activity under the Memorandum of Cooperation (MOC) between the NRC and the NNSA signed in May 2007. The MOC agrees to cooperation on the nuclear safety review and inspection for the siting, design, manufacturing, construction, commissioning and operation phases of the AP1000.
- Results Achieved:** NRC staff from the offices of OHR, RES, and NRO, presented 10 days of technical training related to AP1000 covering the AP1000 Introduction (R-107P) Course, a description of the vendor's test program and analytical models, a characterization of the NRC's independent confirmatory testing and analyses, a summary of the NRC's treatment of severe accidents, and a summarization of several policy and technical issues arising from the AP1000 review. The staff also presented portions of the Licensing Reactors Under 10 CFR Part 52 Course, and a historical perspective on the evolution of risk-informed regulation.
- In addition, the staff was briefed on nuclear and radiation safety in China by managers from the State Environmental Protection Administration (SEPA) and the National Nuclear Safety Administration (NNSA), of the People's Republic of China. SEPA/NNSA presentation materials may be viewed in ADAMS (ML072320439).
- Summary of Trip:** The following NRC staff members supported the technical training effort in China: R. Scott Egli (OHR), Stephen Bajorek (RES), Patrick Madden (NRO), Scott Moore (OIP), John (Jack) Ramsey (OIP), Joelle Starefos (NRO), Ashok Thadani (NRO), and Jerry Wilson (NRO). During the first week, portions of the team traveled to Beijing, China, to a hotel and conference facility that could accommodate the large number of student attending the training program. After four days of training, the students and

NRC staff were transported to Beidaihe, China, approximately 4 hours east of Beijing to the SEPA training facility. With some NRC staff returning home and others arriving in China, the remaining six days of training was accomplished at the SEPA facility.

There were more than 160 Chinese attendees from the following organizations:

- Beijing Institute of Nuclear Engineering
- China National Nuclear Corporation
- China Institute of Nuclear Power Operation and Design
- China Power Investment Corporation
- Department of International Cooperation of Nuclear Safety, SEPA
- Department of Nuclear Safety and Radiation Management, SEPA
- Guangdong Regional Office of Nuclear and Radiation Safety
- Northeast Regional Office of Nuclear and Radiation Safety
- Northern Regional Office of Nuclear and Radiation Safety
- Nuclear and Radiation Safety Center
- Nuclear Facility Center, Institute of Mechanics
- Sanmen Nuclear Power Corporation., Ltd
- Shandong Nuclear Power Company, Ltd
- Shanghai Regional Office of Nuclear and Radiation Safety
- Sichuan Regional Office of Nuclear and Radiation Safety
- State Nuclear Power Technical Corporation
- Suzhou Nuclear Safety Center
- Wuhan Institute of Nuclear Power Operation and Research

**Next Steps:**

The NRC-NNSA Steering Committee on Nuclear Safety Cooperation will meet annually to determine future cooperation activities. The first meeting of the NRC-NNSA Steering Committee on Nuclear Safety Cooperation is expected to be held in Beijing, China, in late 2007.

**Policy Issues:**

NA

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