Draft

Meeting Minutes of The March 16, 2010, Meeting Between The National Nuclear Safety Administration of China (NNSA) And The Nuclear Regulatory Commission of the United States (NRC)

I. Participants

For China NNSA:
Mr. Liu Hua, Director General (DG)
Dr. Jiang Wei, Deputy Director General for International Nuclear Safety Cooperation
Ms. Luan Haiyan, Project Officer, Division of International Cooperation

For the United States NRC:
Mr. Michael Johnson, Director of the Office of New Reactors (NRO)
Dr. Jennifer Uhle, Director of the Division of Safety Analysis, Office of Nuclear Regulatory Research
Mr. Mark Kowal, Chief, Technical Specifications & ITAAC Branch, NRO/DCIP
Ms. Cindy Rosales-Cooper, International Relations Officer, Office of International Programs
Mr. Joseph Sepulveda, Office for Environment, Science, Technology and Health, U.S. Embassy, Beijing

II. Introduction

DG Liu welcomed Mr. Johnson on his first visit to China and noted the positive cooperative relationship between the NRC and the NNSA on the AP1000 nuclear reactor. DG Liu also introduced members of his technical staff that were in the audience of the meeting.
Mr. Johnson thanked DG Liu for hosting his visit, introduced the members of the NRC team accompanying him, and briefly mentioned the status of the three NNSA staff members working on his staff as assignees.

III. Construction and Vendor Inspection

Mr. Johnson and Mr. Kowal provided the NNSA with a presentation on the NRC's NRO which included an update of the combined license reviews currently being conducted. (b)(4)

(b)(4)

Mr. Johnson and DG Liu also discussed the following construction and vendor inspection cooperative points which were agreed upon during the October 2009 visit by Mr. Glenn Tracy of the NRC. DG Liu again stated his agreement to pursuing this area of cooperation.

ENCLOSURE 2

Information in this record was deleted in accordance with the Freedom of Information Act.
Exemptions 4, 5
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Vendor Inspection Cooperation:
Vendor Inspection Cooperation between NRC and NNSA-Northern Regional Office (NRO) on key AP1000 components:

- NNSA is invited to participate in upcoming NRC inspection activities at:
  - Mangiarotti (Italy-Core Make-Up Tanks)
  - Sandvik (Sweden -Steam Generator Tubes)
  - SPX Copes-Vulcan (USA-Squibb Valves)
  - Wyle Laboratories (USA-Qualification Testing)

- NRC to share results of inspections of Sumitomo Metals (Japan-Steam Generator Tubes) and Curtiss Wright EMD (USA-Reactor Coolant Pumps)

- NRC to accompany NNSA (NRO) on its Curtis Wright EMD (USA) inspection anticipated in May 2010.

- Assignments of NRC vendor inspectors at the NNSA (SRO) in 2011 similar to NNSA staff assignments at NRC from November 2009- September 2010.

- Continued cooperation on key inspections in the future.

Construction and Operational Inspection Cooperation:
NNSA staff to participate in Construction Inspection Activities at NRC.

- NNSA staff will:
  - Observe and participate in NRC technical inspections at Watts Bar 2 and new AP1000 construction sites
  - Participate in NRC's development of the construction oversight program enhancements and 10 CFR Part 52 process initiatives.
  - During initial phase of cooperation NNSA staff will also participate and observe at operating reactors in NRC Region 2.

- NRC to host NNSA staff for 6 months in its Region 2 Center for Construction Inspection (January 2010).

- NRC to host NNSA staff for six months at NRC headquarters in the Construction Inspection Program Division (January or April 2010). NNSA staff will participate in NRC technical inspections planned at Watts Bar 2 and new AP1000 construction sites in the U.S.

NRC staff to participate in Construction Inspection Activities at NNSA.

- NRC staff will:
  - NRC will send one to two staff to NNSA at the Shanghai Regional Office for 3 to 6 month periods, beginning April 2010.
  - Observe and participate in NNSA inspections of the construction of the AP1000 reactors at Sanmen and Haiyan.
  - NRC staff will be located at either Sanmen or Haiyan.

- NRC will support NNSA in enhancing its inspection program for the AP1000 by assigning an NRC staff in the NNSA Shanghai Regional Office for 1 month in 2010.

Engineering Design Verification Inspections:

- NNSA (SRO) and NRO inspectors were invited to participate in the NRC Engineering Design Verification Inspection at Westinghouse scheduled for late 2010.

Continued Exchange of Construction and Vendor Inspection Staff:

- NRC and NNSA will discuss the possibility of hosting inspectors for 6-month periods on an ongoing basis during initial AP1000 construction in both countries.

IV. Exchange of Staff

DG Liu thanked the NRC for hosting four of six NNSA staff members for six month assignments in the NRC NRO and the NRC Region 2 Office in Atlanta, GA.
Mr. Johnson then presented DG Liu with two invitation letters for the remaining two NNSA staff expected to begin assignments at NRC on April 5, 2010.
Ms. Rosales-Cooper noted that as of March 2010, the NRC had hosted 27 NNSA staff for extended training assignments at NRC Headquarters. She also relayed the message, *on behalf of the NRC Executive Director for Operations, Bill Borchardt*, NRC's appreciativeness of NNSA's willingness to host the first two NRC staff for extended assignments in China: Mr. Bradley Davis and Mr. Jeffrey Jacobson.

Ex 4

DG Liu indicated China's appreciativeness for NRC's hosting of 27 assignees and indicated the NNSA's need to request additional assignments at NRC for his staff.

(b)(4)

Exemption 4

Mr. Johnson responded positively and indicated NRC's willingness to share NRC's approach for training newly hired staff in the area of nuclear regulation.

V. Update on AP1000 Shield Wall Issue

The NRC delegation presented the NNSA staff with an update and summary on the NRC review of the Westinghouse AP1000 Shield Wall issue. (b)(4)

Ex 4

(b)(4)

Redact Exemption 4

The NRC delegation inquired about the AP1000 reactor coolant pump testing at Curtis Wright EMD and of NNSA's plans to conduct and inspection. DG Liu stated that the inspection was tentatively planned for May 2010 and that NNSA staff would welcome NRC accompaniment on the inspection.

VI. Initial Discussions on HTGR Cooperation

Ex 5

(b)(5)

(b)(5)

Exemption 5

(b)(5)

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VII. Future Cooperative Activities and Date of the NRC-NNSA Steering Committee Meeting

The meeting was concluded by both sides agreeing that the 2010 NRC-NNSA Steering Committee Meeting (SCM) would be hosted by the U.S. in the November 2010 timeframe. The NRC offered to provide a site visit for the NNSA SCM delegation. The NNSA requested a visit to the Palo Verde nuclear power plant as it closely resembles the type of inland sites currently being considered for the next wave of AP1000 units in China. NRC agreed to host the meeting in either the state of Arizona or New Mexico to accommodate this specific site visit.

The NRC also acknowledged the desire of both the Chinese and U.S. Governments to showcase the positive cooperative relationship the NRC and NNSA has on nuclear safety at the upcoming May 2010 S&ED. NRC requested that NNSA consider signing a Memorandum of Cooperation on Construction and Vendor Inspection (b)(4)

(b)(4)

Exemption 4