

## WM2017 Conference Panel Report

### 013 Panel: Global Support for Fukushima Decontamination and Decommissioning and Clean-up Efforts - (2/8)

#### Session Co-Chairs:

**Hirohide Hirai**, *Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry (Japan)*

**Dale Klein**, *US NRC- Retired*

**Panel Reporter: Kevin Kostelnik**, *Savannah River National Laboratory*

#### Panelists:

1. **Naohiro Masuda**, *Managing Executive Officer, President, Fukushima Daiichi D&D Engineering Co., Chief Decommissioning, TEPCO Holdings (Japan)*
2. **Shigeo Nomura**, *Executive Director, NDF (Japan)*
3. **Adrian Simper**, *Director of Strategy and Technology, NDA (United Kingdom)*
4. **Dr. Monica Regalbuto**, *Senior Technical Advisor, US DOE*
5. **Andrew Orrell**, *Section Head, Waste and Environmental Safety, IAEA (Austria)*

This panel session involved participants from government bodies and industry who have supported Japan with recovery efforts associated with Fukushima Daiichi decommissioning. International support has included: emergency response efforts immediately following the accident, subject matter expert sharing, technology exchange/sharing, policy and regulatory advice. The panelists discussed the current status of the Fukushima Daiichi recovery as well as lessons learned that are being used to improve the industry.

#### Summary of Presentations

**Naohiro Masuda** described how the operations at Fukushima have successfully progressed from the early emergency response conditions. Substantial progress has been made to stabilize the four reactors and improve working conditions at the overall site. Operations are now moving towards a more “normal” decommissioning and remediation approach although there remains much uncertainty.

**Shigeo Nomura** discussed Japan's challenges for Fukushima Daiichi D&D. **Mr. Nomura** indicated that the required work will take decades to execute. Current efforts are focusing on “optimizing” the remediation plans and waste management systems as well as working to overcome various operational barriers. Effective global collaboration is still needed.

**Adrian Simper** provided his perspective with regard to “Global Support for Fukushima Decontamination and Decommissioning and Clean-up Efforts”. He noted that the international nuclear community is very much a global family with a common interest in a successful recovery.

## WM2017 Conference Panel Report

Also, the UK and Japan have a long history of collaboration; and very soon this community will be learning more about D&D from Japan just as Japan has benefitted from the international community to date.

**Dr. Monica Regalbuto** highlighted the USDOE's involvement with regard to the Fukushima recovery and remediation efforts. **Dr. Regalbuto** congratulated the Japanese representatives on the significant progress which has been made to date. As she pointed out, initially there was substantial international technical support flowing into Japan. Now after six years of successful work, the technological advancements achieved by TEPCO and others, in such fields as robotics, remote systems, and waste management, are flowing out of Japan to benefit the international waste management community.

**Andrew Orrell** spoke of the Agency's continued support to Japan with regard to the recovery of Fukushima Daiichi. The Agency acts not as a supplier but rather as a broker to help Member States obtain the necessary support. Since the accident, IAEA has coordinated various support efforts including development of a Nuclear Action Plan, three IAEA 1F Missions, issuance of Lessons Learned and a summary report on the Fukushima Daiichi accident, as well as capacity building efforts for radiation monitoring within the Fukushima Prefecture.

**Mr. Dale Klein**, USNRC (retired) who co-chaired the session with **Mr. Hirohide Hirai** of the Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry, noted that following the TMI-II accident in the USA, Japan was the only country to provide support. Now following the Fukushima accident it is our turn to provide help to our colleagues.