

Topical (Panel) Session

RIDM Activities of Japanese Utilities

Organizer

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Panelists (Speakers)

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In this session, Japanese utilities introduce their efforts of in RIDM, and exchange opinions on issues, difficulties, and innovations in implementing RIDM. This enable valuable countermeasures based on overseas RIDM experiences to be shared, and is expected to contribute to further progress in the risk-informed activities.

1. OVERVIEW OF RIDM IN JAPAN

This is a strategic approach in the nuclear power companies to enhance safety by integrating risk information into decision-making processes. This aims to improve the safety and reliability of nuclear power plants by using PRA and other insights in decision-making. This plan consists two phases. Phase 1 focused on establishing PRA technologies. Phase 2 will focus on application of risk insights.

2. APPLICATION CASES

At first, Hokkaido Electric Power explain how to establish the risk management process that is the basis of RIDM at Tomari nuclear power plant. The following four companies explain how they implement RIDM according to respective circumstances.

- 1) Tohoku Electric Power shows efforts to apply risk information about various hazards included earthquake and tsunami for improving safety level of Onagawa nuclear power plant.
- 2) Tokyo Electric Power provides a case study of specific approach RIDM at Kashiwazaki-Kariwa nuclear power plant.
- 3) Chubu Electric Power presents risk-informed activities focused on earthquakes, fire and adverse effect by workers at Hamaoka nuclear power plant, which has been shut down for a long-term since the Fukushima Daiichi accident.
- 4) Kansai Electric Power, which has restarted nuclear plants, provide applying risk information to improve a maintenance program rationally.

3. DISCUSSION

Japanese utilities have many questions and problems regarding RIDM. They also have successes and innovations. The panelists present these and discuss them with the audience, who also share their experiences and advice.