Summary of the 5th Technical Advisory Committee (TAC) Meeting

Date:	May 30 – June 2, 2016
Place:	Central Research Institute of Electric Power Industry
Participants:	
TAC:	Mr. Stetkar (Chair), Mr. Afzali, Dr. Chokshi, Mr. Miraucourt, Prof. Takada, Prof. Yamaguchi
NRRC:	Dr. Apostolakis (Head), Experts of Nuclear Risk Research Center
Industry:	Representatives of Federation of Electric Power Companies (FEPC), experts of Shikoku EPCO and Tokyo EPCO for respective topics

Proceedings
All topics were discussed in full committee.
Some sessions were intended to share information on current activities and initiatives of risk management in France and Japan among all participants.

May 30 (Mon)

Topic 1: Risk Assessment Research

- NRRC presented the current research status of Fire PRA and HRA (Human Reliability Analysis), the research of thermal hydraulic behavior in containment vessel, and five research items recommend by the TAC letter reports issued after the 4th meeting.
- TAC member commented as follows
  - Regarding fire PRA, NRRC should establish clear criteria to classify the fire events.
  - It would be better for the HRA guideline to be able to cover various application areas, instead of focusing on a specific application. Eventually, it will be desirable to upgrade this HRA guideline so as to cover applications such as external event PRA and level 2 PRA. Additional guidance and examples of deviation scenarios are needed.

(Handouts)
1-1 Current status of fire PRA research
1-2 Study on the evaluation of convection behavior in containment vessel

- Summary of outcomes of the 2015 fiscal year-
1-3 NRRC HRA Guide & HRA Upgrade
1-4 R&D items recommended by TAC -current status-

May 31 (Tue.)

Topic 2: External Natural Event Research

- NRRC presented the current research status of SSHAC(*) seismic hazard analysis, tsunami fragility, seismic fragility, tornado, and volcano.
  (*SSHAC: Senior Seismic Hazard Analysis Committee)
- TAC member commented as follows
  - Methodology for tsunami fragility should be upgraded with realistic consideration based on actual plant characteristics.
  - Regarding the development of the simulation model of volcano ash fall, NRRC should try to develop a simple model first that is consistent with the available data. After that, if some parts of the model would be found to have significant contributions to risk, the model can be refined in those specific parts.

(Handouts)
2-1 Current Status of SSHAC Project
2-2 Tsunami fragility
2-3 Progress of research on seismic fragility evaluation
2-4 Tornado
2-5 R&D related to Volcano Hazard

June 1 (Wed.)

Topic 3: Current practice of risk management in France

Mr. Miraucourt, a TAC member, presented the current practice of risk management in France.

Topic 4: Ikata Project Update

Shikoku EPCO reported the progress of PRA development in Ikata unit 3.

(Handout)

3-1 Ikata Unit 3 Project Update

June 2 (Thur.)

Topic 5: Strategic initiative of the Japanese nuclear industry (information only)

FEPC presented the current situation of nuclear industry in Japan and the industry-wide strategic initiative to realize proper applications of risk-informed decision making.

Topic 6: Fact findings of current status of PRAs in Kashiwazaki-Kariwa NPP (information only)

Tokyo EPCO presented the current status of PRA development in Kashiwazaki-Kariwa NPP, since Kashiwazaki-Kariwa unit 6 and 7 were selected as the pilot plant to develop "Good PRAs" for Japanese BWRs.

(Handout)

6-1 Current Status of PRA in Kashiwazaki-Kariwa N.P.S

6-2 Kashiwazaki-Kariwa Implementation Details