

Nuclear Risk Research Center (NRRC)
Central Research Institute of the Electric Power Industry (CRIEPI)
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Dr. George Apostolakis
Director

December 19, 2025

Mr. J.W. Stetkar, Chairman
Technical Advisory Committee

Subject: DEVELOPMENT OF JAPANESE INDUSTRY FULL-SCOPE,
ALL-HAZARDS, ALL-OPERATING-MODES LEVEL 2
PROBABILISTIC RISK ASSESSMENT

Dear Chairman Stetkar:

We express our gratitude for the strong support received from the Technical Advisory Committee (TAC) for our initiative to develop a Level 2 probabilistic risk assessment (PRA) covering all hazards and all modes for a nuclear power plant in Japan, which we have begun to consider.

The NRRC's response to the TAC recommendations is as follows:

1. Develop a Japan-Specific Full-Scope Level 2 PRA

We agree with the TAC's recommendation regarding the development of a full-scope Level 2 PRA specific to Japan. We will support the development of a comprehensive Level 2 PRA covering all operating modes and associated hazards, working closely with Japanese utilities. This effort will establish a technical foundation enabling consistent risk assessment for the nuclear power plants in Japan. Furthermore, we aim for this initiative to promote the adoption of a risk-informed decision-making process in Japan, ultimately achieving enhanced safety and operational efficiency at nuclear power plants.

2. Integrate Industry's Methods into a Coherent PRA Framework

We agree with the TAC's recommendation to establish a consistent PRA framework. In developing the comprehensive Level 2 PRA, which will cover all operating modes and associated hazards, we will support the integration of the industry's latest methodologies, approaches, and analytical tools into the PRA framework in a consistent manner.

Sincerely,

A handwritten signature in blue ink, appearing to read "George Apostolakis". The signature is fluid and cursive, with a long horizontal stroke at the end.

George Apostolakis