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Dr. George Apostolakis  
Director

December 19, 2025

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

Subject: TAC Letter Report titled “SELECTED TOPICS IN GUIDANCE FOR  
COLLECTION AND SCREENING OF COMPONENT RELIABILITY DATA”  
dated November 27, 2025

Dear Chairman Stetkar:

We appreciated the discussion with TAC regarding our activity to update the data collection guide for PRA and the report on PRA parameter estimation. We are also sincerely grateful to TAC for their insightful recommendations on the topics that we regard as essential for data collection and screening guidance for PRA.

The NRRC’s responses to the conclusions and recommendations of the TAC are presented as follows:

**1. Data and models used to quantify parameters for component failures to actuate on demand**

The NRRC will recommend, in the revised data collection guide, that all Japanese utilities collect data on the number of component failures and the numbers of demands to quantify probabilities of component failures to actuate on demand based on the failure-on-demand model.

**2. Treatment of personnel errors that contribute to equipment failures**

The NRRC will revise and clarify the data screening guidance on human-induced component failures as follows. In general, component failures caused by pre-initiator human errors should be excluded from component failure data; however, screening decisions should be made on a case-by-case basis in

consultation with HRA experts.

**3. Scope of systems, components, and failure modes for which data are collected**

The NRRC will revise the guidance on the data-collection scope to include all components and failure modes across the industry PRAs, rather than limiting it to the specific components and failure modes in each plant's current PRA models.

We will finalize the updates to the guide and subsequently conduct further data collection and parameter estimation in accordance with it. We anticipate ongoing discussions with TAC on developing Japanese equipment reliability parameters, such as common-cause failure parameters and unavailabilities, in addition to component failure rates and probabilities.

Sincerely,

A handwritten signature in blue ink, appearing to read "George Apostolakis", with a stylized flourish at the end.

George Apostolakis