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Dr. George Apostolakis, Head, NRRC

March 24, 2021

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

Subject: TAC Report titled "PROPOSED NRRC RESEARCH ON SELECTED SEISMIC ISSUES  
FOR FISCAL YEAR 2021" dated February 16, 2021

Dear Chairman Stetkar:

We appreciated the interactions with TAC throughout the review of our research plan and the Committee's insights. The NRRC reply to the TAC recommendations for two specific areas of the NRRC seismic research program is as follows.

**1. SSHAC Methodology Applications**

NRRC will consider the importance of site effect and site response in drafting the PSHA guidance and planning a regional approach for PSHA reevaluation in Japan based on the applicable standards.

**2. Piping Fragility Research**

NRRC is conducting research on piping fragility evaluation focusing on fatigue. Although no clear selection method has been established, LOCA-related piping will be evaluated from the viewpoint of the impact on the results from past seismic PRA results. We would like to make efforts to clarify the selection of piping to be examined and the survey criteria based on the comments. These results are intended to contribute to the revision of the screening criteria.

**3. Future Discussion**

NRRC will discuss the progress of research and development during a TAC meeting with

appropriate timing.

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