

August 10, 2017

Dr. Dennis C. Bley, Chairman
Advisory Committee on Reactor Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT: INTERIM LETTER: CHAPTERS 6, 12, 13, 14, 16, 17, AND 19 OF THE U.S. NUCLEAR REGULATORY COMMISSION STAFF'S SAFETY EVALUATION REPORT WITH OPEN ITEMS RELATED TO THE CERTIFICATION OF THE APR1400 DESIGN

Dear Dr. Bley:

Thank you for your interim letter dated June 21, 2017 (Agencywide Documents Access and Management System Accession No. ML17171A033), regarding the safety evaluation report (SER) with open items (OIs) associated with Chapters 6, 12, 13, 14, 16, 17, and 19 of the Advanced Power Reactor 1400 design certification application. As discussed during the 644th meeting of the Advisory Committee on Reactor Safeguards (ACRS), June 7–9, 2017, the U.S. Nuclear Regulatory Commission staff (staff) is currently working to resolve the OIs associated with the review of these chapters. We are pleased with your first conclusion that, "Except for the current [SER] open items and the concern that is highlighted in Conclusion 2, our review of these chapters did not identify any other issues with potentially significant safety implications that merit special attention at this interim stage of the review."

The staff is working with the co-applicants, Korea Electric Power Corporation and Korea Hydro & Nuclear Power Company, Ltd., to resolve all of the OIs and minimize the impact of the concern identified your Conclusion 2. This conclusion relates to the introduction of new, substantive technical information to the probabilistic risk assessment (PRA) and Chapter 19, "Probabilistic Risk Assessment and Severe Accident Evaluation," late in the review process.

To minimize the impact of the late changes on the ACRS review of Chapter 19, a separate information briefing has been scheduled with the ACRS to discuss the updates to the PRA models, analysis, and results. This meeting is scheduled for December 6, 2017, and we hope that this will provide sufficient time for the committee members to identify significant issues prior to the staff's completion of its SER with no open items. The subsequent subcommittee meeting on the Chapter 19 SER with no open items is scheduled for April 2018.

D. Bley

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We appreciate your continued review of the SER on a chapter-by-chapter basis and look forward to future meetings with you.

Sincerely,

/RA Michael R. Johnson for/

Victor M. McCree
Executive Director
for Operations

Docket No.: 52-046

cc: Chairman Svinicki
Commissioner Baran
Commissioner Burns
SECY

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