



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 13, 2018

Dr. Michael L. Corradini, Chairman
Advisory Committee on Reactor Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT: SAFETY EVALUATION OF TOPICAL REPORT APR1400-F-A-TR-12004,
REVISION 1, "REALISTIC EVALUATION METHODOLOGY FOR LARGE-
BREAK LOSS OF COOLANT ACCIDENT OF THE APR1400"

Dear Dr. Corradini:

On behalf of the U.S. Nuclear Regulatory Commission staff, I would like to thank you for the letter from the Advisory Committee on Reactor Safeguards (ACRS) dated June 15, 2018, on the safety evaluation for Topical Report APR1400-F-A-TR-12004, Revision 1, "Realistic Evaluation Methodology for Large-Break LOCA [Loss of Coolant Accident] of the APR1400," issued August 2017. Your letter was in response to the discussions on the staff's large-break LOCA (LBLOCA) methodology safety evaluation that took place during the 653rd and 654th meetings of the ACRS on May 3–4, 2018, and June 6–7, 2018, respectively. The ACRS concluded that the code-accuracy based realistic evaluation methodology is acceptable for the APR1400 LBLOCA evaluations, subject to conditions and limitations identified by the staff. Additionally, the ACRS recommended that the staff should issue the safety evaluation report.

As discussed during the meetings, the staff found the LBLOCA analysis methodology acceptable with conditions and limitations. Any applicant or licensee referencing the topical report must address the staff's limitations and conditions as stated in the safety evaluation. The staff expects to issue its safety evaluation report in August 2018.

The staff appreciates the ACRS' thorough review as it completes its review of the APR1400 design certification and related topical reports.

Sincerely,

/RA Vonna Ordaz Acting for/

Frederick D. Brown, Director
Office of New Reactors

Docket No.: 52-046

cc: Chairman Svinicki
Commissioner Baran
Commissioner Burns
Commissioner Caputo
Commissioner Wright
SECY

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 REVISION 1, "REALISTIC EVALUATION METHODOLOGY FOR LARGE-BREAK
 LOSS OF COOLANT ACCIDENT OF THE APR1400"
 DATED: July 13, 2018

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