

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

APR1400 Design Certification

Korea Electric Power Corporation / Korea Hydro & Nuclear Power Co., LTD

Docket No. 52-046

RAI No.: 169-8162

SRP Section: 05.03.02

Application Section: Technical Report APR1400-Z-M-NR-14008-P

Date of RAI Issue: 08/25/2015

Question No. 05.03.02-1

In Enclosures 2 (proprietary) and 3 (ML15198A559) to the letter dated July 17, 2015 (ML15198A557), the applicant provided the data points (pressure and temperature) for all operating limit curves in the PTLR (Technical Report APR1400-Z-M-NR-14008-P). To enable the staff to complete its review, please provide the stress intensity factors used to determine the allowable pressures corresponding to all points with a temperature greater than 70 degrees Fahrenheit on the heatup, core critical, cooldown, flange heatup, and Inservice Leak and Hydrotest (ISLH) curves.

Response

The following Table shows stress intensity factors used to determine the allowable pressures. Structural factors for the primary stress in G-2215 and G-2400 of Appendix G to the ASME Code Section XI will be additionally considered to determine the allowable pressures.

TS

Impact on DCD

There is no impact on the DCD.

Impact on PRA

There is no impact on the PRA.

Impact on Technical Specifications

There is no impact on the Technical Specifications.

Impact on Technical/Topical/Environmental Reports

There is no impact on any Technical, Topical or Environmental Reports.