
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.: 108-7973
SRP Section: 15.00.03-28
Application Section: Chapter 15 including 15A
Date of RAI Issue: 07/23/2015

Question No. 15.00.03-28

10 CFR 52.47(a)(2)(iv) requires that an application for a design certification include a final safety analysis report that provides a description and safety assessment of the facility. The safety assessment analyses are done, in part, to show compliance with the radiological consequence evaluation factors in 52.47(a)(2)(iv)(A) and 52.47(a)(2)(iv)(B) for offsite doses, 10 CFR 50, Appendix A, GDC 19 for control room radiological habitability, and the requirements related to the technical support center in 10 CFR 52.47(b)(8) and (b)(11) and Paragraph IV.E.8 of Appendix E to 10 CFR Part 50. The radiological consequences of design basis accidents are evaluated against these regulatory requirements and the dose acceptance criteria given in SRP 15.0.3.

DCD Table 15.7.4-1 provides a list of limiting onsite χ/Qs for the unfiltered inleakage to the control room envelope from the FHA. These values do not seem to be taken from DCD Tables 2.3-2 through 2.3-12. How were these values developed? Is the release point the fuel handling area vent (point 13 on DCD Figure 2.3-1)?

Response

The limiting onsite χ/Qs for the unfiltered inleakage to the control room envelope from the fuel handling area vent use the same values as the onsite χ/Qs for the fuel handling exhaust release to the auxiliary building south intake, and these values were added to DCD Tier 2, Table 2.3-12 as indicated in the response to RAI 174-8211-Question 02.03.04-05 which has been submitted to NRC.

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 Environment Report.