

REVISED 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.: 317-8271

SRP Section: 14.03.05 – Instrumentation and Controls – Inspections, Tests, Analyses, and Acceptance Criteria

Application Section: 14.03.05

Date of RAI Issue: 11/17/2015

Question No. 14.03.05-15

Provide design descriptions and corresponding ITAACs to verify the as-built reactor protection system (RPS) and Engineered Safety Features Actuation System (ESFAS) provide interlocks when associated conditions are met.

10 CFR 50.55a(h)(3) states, in part, that an application filed on or after May 13, 1999, for design certifications must meet the requirements for safety systems in IEEE Std. 603-1991 and the correction sheet dated January 30, 1995. IEEE Std. 603-1991, Clause 4.12, requires the identification of any special design basis that may be imposed on the system design (example: diversity, interlocks, regulatory agency criteria). The staff finds the applicant did not provide design descriptions and corresponding ITAACs to verify that the as-built RPS and ESFAS provide interlocks when associated conditions are met in order to meet the requirements of IEEE Std. 603-1991, Clause 4.12. As such, the staff requests the applicant to provide this information in Tier 1 of the APR1400 FSAR.

Response – (Rev.1)

The [revised](#) response to RAI 46-7879, Question No.07.06-2 ([Rev.1](#)) has been submitted (ref. [MKD/NW-16-1037L](#) dated [October 14, 2016](#); [ML16288A864](#)) and includes the related design description, a table, and ITAAC items to be inserted into DCD Tier 1 Section 2.5.4 for interlock systems important to safety, [which is](#) applicable to this question.

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 Report.