

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.: 381-8467
SRP Section: 10.04.08 – Steam Generator Blowdown System
Application Section: 10.04.08-2
Date of RAI Issue: 02/01/2016

Question No. 10.04.08-2

Based on the review of FSAR Subsection 10.4.8, the staff is unclear regarding the classification of the central blowdown pipe inside the steam generator as it relates to material, design, fabrication, testing, and inspection. The staff needs this information to determine if the system meets the requirements of GDC 1, GDC 2, and GDC 14.

Response

Material: Cold formed seamless carbon steel structural rectangular tubing.
Design: See figure below, Referenced drawing No. N11023-160CD-4102

[Blowdown piping geometry]

TS

Fabrication: Bend the curved sections of piping using the Induction Bending Method and perform full penetration welding between curved and straight portions of piping.

Testing & Inspection: Dimension inspection and visual examination are performed. Visual examination activities that are not prescribed by other specific Codes, and are performed solely to verify compliance with the requirements of NB-4000, may be performed by the persons who perform or supervise the work. These visual examinations are not required to be performed by personnel and procedures qualified to NB-5500 and NB-5100, respectively, unless so specified.

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.