

KHNPDCDRAIsPEm Resource

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Sent: Monday, August 31, 2015 8:44 AM
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Cc: Scully, Derek; Dias, Antonio; Umana, Jessica; Lee, Samuel
Subject: APR1400 Design Certification Application RAI 180-8059 (16 - Technical Specifications)
Attachments: APR1400 DC RAI 180 SPSB 8059.pdf; image001.jpg

KHNP,

The attachment contains the subject request for additional information (RAI). This RAI was sent to you in draft form. Your licensing review schedule assumes technically correct and complete responses within 30 days of receipt of RAIs.

Please submit your RAI response to the NRC Document Control Desk.

Thank you,

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REQUEST FOR ADDITIONAL INFORMATION 180-8059

Issue Date: 08/31/2015
Application Title: APR1400 Design Certification Review – 52-046
Operating Company: Korea Hydro & Nuclear Power Co. Ltd.
Docket No. 52-046
Review Section: 16 - Technical Specifications
Application Section:

QUESTIONS

16-53

Justify the value of the whole body exposure listed in generic Technical Specification (TS) 5.5.12 which deviates from STS 5.5.12.

In Section 5.5.12.b, the STS reads "...in a whole body exposure of ≥ 0.5 rem to any..." The text in the generic TS reads "...in a whole body exposure of 0.1 rem to any..."

This justification is to ensure the range and value of the whole body exposure is accurate in generic TS 5.5.12.

16-54

Justify the value of the total particulate concentration listed in generic Technical Specification (TS) 5.5.13 which deviates from STS 5.5.13.

In Section 5.5.13.c, the STS reads "...of the fuel oil is ≤ 10 mg/l when tested..." The text in the generic TS reads "...of the fuel oil is < 10 mg/l when tested..."

This justification is to ensure the value is accurate in TS 5.5.13.

16-55

1. Justify an omission in generic Technical Specification (TS) 5.5.19, Setpoint Control Program (SCP), which deviates from STS 5.5.19, which is based on TSTF-493-A.

Specification 5.5.19 in the STS contains paragraph "e" which reads "The program shall be specified in [insert the facility FSAR reference or the name of any document incorporated into the facility FSAR by reference]. The generic TS omits paragraph "e", which removes the placeholder for a subsequent applicant to include this information when referencing the APR1400 design.

This justification is required to ensure the completeness of TS 5.5.19.

2. In addition, KHNP is requested to add the following paragraphs to the SCP Specification to satisfy the needs of the Part 52 COL licensing process regarding technical specifications:
 - e. The difference between the instrument channel trip setting as-found value and the previously recorded as-left value for each Technical Specification required automatic

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protection instrumentation function shall be trended and evaluated to verify that the instrument channel is functioning in accordance with its design basis.

- f. The program shall establish a document containing the current value of the specified NTSP, AV, AFT, and ALT for each Technical Specification required automatic protection instrumentation function and references to the calculation documentation. Changes to this document shall be governed by the regulatory requirement of 10 CFR 50.59. In addition, changes to the specified NTSP, AV, AFT, and ALT values shall be governed by the approved setpoint methodology. This document, including any revisions or supplements, shall be provided upon issuance to the NRC.
3. The applicant is requested to insert the following list of technical reports, which are expected to be approved by the NRC staff as a part of the design certification, in Specification 5.5.19.b:
 - APR1400-F-C-NR-14001P, Rev.0, "CPC Setpoint Analysis Methodology for APR1400," July 2014
 - APR1400-Z-J-NR-14004-P, Rev.0, "Uncertainty Methodology and Application for Instrumentation," November 2014
 - APR1400-Z-J-NR-14005-P, Rev.0, "Setpoint Methodology for Plant Protection System," November 2014

16-56

Justify the omission of a Note from STS 5.6.1 and a Note from STS 5.6.2 in generic Technical Specifications (TS) 5.6.1 and 5.6.2.

STS 5.6.1, Annual Radiological Environmental Operating Report, contains a Note that states, "A single submittal may be made for a multiple unit station. The submittal should combine sections common to all units of the station." STS 5.6.2, Radiological Effluent Release Report, contains a Note that states, "A single submittal may be made for a multiple unit station. The submittal should combine sections common to all units of the station; however, for units with separate radwaste systems, the submittal shall specify the releases of radioactive material from each unit." These Notes are omitted from generic TS 5.6.1 and 5.6.2. These Notes would allow a licensee, with COLs for a multiple unit site referencing the APR1400 design, the flexibility to submit combined reports.

This justification is required to ensure that generic TS 5.6.1 and 5.6.2 are complete and accurate, and consistent with the STS.

16-57

Justify the omission of a provision from STS 5.6.7, Steam Generator Tube Inspection Report, in generic Technical Specification (TS) 5.6.7.

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Generic TS 5.6.7 specifies a list of items to be included in the Steam Generator Tube Inspection Report. In STS 5.6.7, this list contains item “i” which is the “Repair method utilized and the number of tubes repaired by each repair method.” The list in the generic TS omits this item.

This justification is required to ensure that generic TS 5.6.7 is complete and accurate, and consistent with the STS.

