

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Tuesday, April 19, 2016 9:12 AM
To: apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Jung-ho Kim (jhokim082@gmail.com); Andy Jiyong Oh; Steven Mannon
Cc: Lee, Pete; Huyck, Doug; Vera, John; Ward, William; Williams, Donna
Subject: APR1400 Design Certification Application RAI 465-8565 (14.03.12 - Physical Security Hardware - Inspections, Tests, Analyses, and Acceptance Criteria)
Attachments: APR1400 DC RAI 465 NSIR RSRLB 8565.pdf

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 465-8565

Issue Date: 04/19/2016

Application Title: APR1400 Design Certification Review – 52-046

Operating Company: Korea Hydro & Nuclear Power Co. Ltd.

Docket No. 52-046

Review Section: 14.03.12 - Physical Security Hardware - Inspections, Tests, Analyses, and Acceptance Criteria

Application Section: Tier 2, Chapter 14.3.2.12

QUESTIONS

14.03.12-10

Regulatory Basis: Subpart B of 10 CFR 52, § 52.47, requires that information submitted for a design certification must include performance requirements and design information sufficiently detailed to permit the preparation of acceptance and inspection requirements by the NRC, and procurement specifications and construction and installation specifications by an applicant. Title 10 CFR 52.48 requires the applications filed will be reviewed for compliance with the standards set out in 10 CFR Part 73. Title 10 CFR 52.47(b)(1) requires that the application must contain proposed inspections, tests, analyses, and acceptance criteria that are necessary and sufficient to provide reasonable assurance that, if the inspections, tests, and analyses are performed and the acceptance criteria met, a facility that incorporates the design certification has been constructed and will be operated in conformity with the design certification, the provisions of the Act, and the Commission's rules and regulations.

Tier 2, Chapter 14.3.2.12, "ITAAC for Physical Security Hardware," (Pages 14.3-28 to 14.3-29):

Provide descriptions and/or procedure test abstracts to address the following physical security ITAAC identified in Table 2.12-1 of Tier 1 of the DCD:

- a. Include descriptions in ITAAC Procedure Test Abstract No. 1.2.12.1.138, "Equipment to permit observation of abnormal presence or activity of person and vehicles," for the illumination equipment to address physical security hardware ITAAC Item No. 5 in Table 2.12-1.
- b. Provide procedure test abstract for physical security hardware ITAAC No. 6 in Table 2.12-1.
- c. Indicate in the Procedure Test Abstract No. 14.2.12.1.142 the objective and acceptance criteria for the verifications of locations and analyses for single act identified in physical security ITAAC No. 11.c.
- d. Provide procedure test abstract for physical security hardware ITAAC No. 13.a in Table 2.12-1.

The response to RAI No. 197-8176, Question No. 14.03.12-6 provided test abstracts (No. 14.2.12.1.136 through 14.2.12.1.46) corresponding to how verification and test procedures will be performed and developed, respective, for a reasonable assurance of ITA for physical security systems identified as physical security ITAAC (i.e., Tier 1, Table 2-12.1). However, additional procedure test abstracts and/or additional descriptions of how construction activities, preoperational testing, and test procedures will be developed to contain inspections, tests, analyses, and acceptance criteria are needed to adequately address physical security ITAAC Nos. 5, 6, 11.c, and 13.a.

