

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Thursday, June 04, 2015 1:43 PM
To: KHNPDCDRAIsPEm Resource
Cc: Ward, William; Gonzalez, Carlos
Subject: FW: APR1400 Design Certification Application RAI 11-7889 (13.5 Conduct of Operations - Plant Procedures)
Attachments: image001.jpg; APR1400 DC RAI 11 COLP 7889.pdf

From: Ward, William
Sent: Friday, May 15, 2015 2:05 PM
To: 'apr1400rai@khnp.co.kr'; 'Chang, Harry'; 'Yunho Kim (yshh8226@gmail.com)'; KHNPDCDRAIsPEm Resource; 'seung.choi@aecom.com'; 'Mannon, Steven (steven.mannon@aecom.com)'; 'Tyree, Christopher (christopher.tyree@aecom.com)'
Cc: Ciocco, Jeff; Lee, Samuel; Olson, Bruce; Junge, Michael; DeMarshall, Joseph
Subject: APR1400 Design Certification Application RAI 11-7889 (13.5 Conduct of Operations - Plant Procedures)

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,

William R. Ward, P.E.
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Hearing Identifier: KHNP_APR1400_DCD_RAI_Public
Email Number: 27

Mail Envelope Properties (A67A2D233B3FBB4C8B5109AD7C3955070FF8FF09B0)

Subject: FW: APR1400 Design Certification Application RAI 11-7889 (13.5 Conduct of Operations - Plant Procedures)
Sent Date: 6/4/2015 1:43:14 PM
Received Date: 6/4/2015 1:43:17 PM
From: Ciocco, Jeff

Created By: Jeff.Ciocco@nrc.gov

Recipients:

"Ward, William" <William.Ward@nrc.gov>

Tracking Status: None

"Gonzalez, Carlos" <Carlos.Gonzalez@nrc.gov>

Tracking Status: None

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Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	1149	6/4/2015 1:43:17 PM
image001.jpg	3989	
APR1400 DC RAI 11 COLP 7889.pdf		85123

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:



Request for Additional Information 11-7889

Issue Date: 05/15/2015

Application Title: APR1400 Design Certification Review – 52-046

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

Docket No. 52-046

Review Section: 13.05.02.01 - Operating and Emergency Operating Procedures

Application Section: SRP 13.5.2.1

QUESTION

13.05.02.01-1

APR1400 DCD, Chapter 13, "Conduct of Operations," Section 13.5, "Plant Procedures"

REQUIREMENTS

APR1400 Design Control Document (DCD) Tier 2, Section 13.5, "Plant Procedures," states the Combined License Applicant (COL) is to provide a program for developing and implementing emergency operating procedures (EOPs). The COL applicant will also develop target dates for completion and submittal to the NRC of program elements.

Standard Review Plan (SRP) Section 13.5.2.1, "Operating and Emergency Operating Procedures," section I.3 states that the SAR or other submittal (e.g., the procedures generation package [PGP]) should describe the applicant's program for developing EOPs as well as the required content of the EOPs. The staff will review the applicant's program for development and implementation of the EOPs. SRP Section 13.5.2.1 identifies the four elements of the Procedures Generation Package (PGP) as:

- a. Plant-specific technical guidelines (P-STGs)
- b. A plant-specific writer's guide to be used to develop the EOPs
- c. A description of the program for verification and validation of the EOPs
- d. A description of the program for training operators on EOPs

The PGP submittal should describe the COL applicant's procedure development program for the EOPs as well as the required content of the EOPs. The P-STGs (from which the EOPs are derived) are guidelines based on the analysis of transients and accidents that are specific to a COL applicant's plant design and operating philosophy. The P-STGs may be based on either of the following generic technical guideline (GTG) options:

- a. APR1400 design-specific generic technical guidelines (GTGs), the development of which has no basis in any previously reviewed and approved owners group GTG. KHNP would provide all necessary engineering evaluations and/or analyses used in the developmental process.
- b. APR 1400 design-specific GTGs that are derived from a previously reviewed and approved owners group GTG (i.e., Westinghouse, Combustion Engineering, Babcock and Wilcox, General Electric). KHNP would identify significant safety deviations from the approved owner's group GTG (including identification of additional equipment beyond that identified in the GTGs), along with all necessary engineering evaluations and/or analyses to technically justify the adequacy of each deviation.

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APR 1400 design-specific GTGs require NRC review and approval.

ISSUE

APR 1400 DCD Section 13.5 does not include APR 1400 design-specific GTGs.

INFORMATION NEEDED

Provide APR 1400 design-specific GTGs for NRC review and approval, along with all necessary engineering evaluations and/or analyses.