

ArevaEPRDCPEm Resource

From: Miernicki, Michael
Sent: Friday, October 25, 2013 4:08 PM
To: ArevaEPRDCPEm Resource
Subject: FW: US EPR DC DRAFT RAI 614, Chapter 14, Section 14.03.07 Plant Systems ITAAC
Attachments: Draft RAI 614_ BPTS_RAI_7260.docx

Michael J. Miernicki
Sr. Project Manager
NRC/NRO/DNRL/LB1
301-415-2304

From: Miernicki, Michael
Sent: Friday, October 25, 2013 4:04 PM
To: "usepr@areva.com" (usepr@areva.com)
Cc: Wheeler, Larry; Takacs, Michael; Hearn, Peter; McKenna, Eileen; Segala, John; Gleaves, Bill
Subject: US EPR DC DRAFT RAI 614, Chapter 14, Section 14.03.07 Plant Systems ITAAC

Attached please find Draft RAI No. 614 regarding your application for standard design certification of the U.S. EPR. If you have any questions or need clarification regarding this Draft RAI, please let me know as soon as possible, I will have our technical Staff available to discuss them with you.

Please also review the Draft RAI to ensure that we have not inadvertently included proprietary information. If there is any proprietary information, please let me know within the next ten days. If I do not hear from you within the next ten days, I will assume there are none and will make the Draft RAI publicly available.

Thank you,

Mike

Michael J. Miernicki
Sr. Project Manager
NRC/NRO/DNRL/LB1
301-415-2304

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 4713

Mail Envelope Properties (9C2386A0C0BC584684916F7A0482B6CAEAF4533687)

Subject: FW: US EPR DC DRAFT RAI 614, Chapter 14, Section 14.03.07 Plant Systems
ITAAC
Sent Date: 10/25/2013 4:07:35 PM
Received Date: 10/25/2013 4:07:37 PM
From: Miernicki, Michael

Created By: Michael.Miernicki@nrc.gov

Recipients:
"ArevaEPRDCPEm Resource" <ArevaEPRDCPEm.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

| Files | Size | Date & Time |
|-----------------------------------|-------------|------------------------|
| MESSAGE | 1160 | 10/25/2013 4:07:37 PM |
| Draft RAI 614_ BPTS_RAI_7260.docx | | 30364 |

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

DRAFT

Request for Additional Information 614

Issue Date: 10/25/2013

Application Title: U. S. EPR Standard Design Certification - Docket Number 52-020

Operating Company: AREVA NP Inc.

Docket No. 52-020

Review Section: 14.03.07 - Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria

Application Section: 9.2.8 and 14.3.7

QUESTIONS

14.03.07-41

10 CFR 52.47(b)(1) requires that a DC application contain the proposed ITAAC 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 DC has been constructed and will be operated in conformity with the DC, the provisions of the Atomic Energy Act (AEA), and the U.S. Nuclear Regulatory Commission's (NRC's) rules and regulations.

In accordance with 10 CFR 50 Appendix A and GDC 44, cooling water must have the capability to transfer heat from structures, systems, and components (SSCs) important to safety to an ultimate heat sink during both normal and accident conditions, with suitable redundancy, assuming a single active component failure coincident with either the loss of offsite power or loss of onsite power. Based on the staff's review of US-EPR FSAR Revision 5, the following question is needed related to the safety chilled water system (SCWS) and SSCs important to safety.

FSAR Tier 1 Section 2.7.2, item 7.1 (page 2.7-61), acceptance criteria, states that the refrigerating units provides chilled water at a temperature of less than or equal to 41 degrees F to support the heat removal requirements of each user. If the refrigerating units provide chilled water near the freezing temperature of water, this would be an unacceptable; therefore, the acceptance criteria for item 7.1 should be revised to comply with the typical temperature ranges of the SCWS chillers.