

ArevaEPRDCPEm Resource

From: Hearn, Peter
Sent: Wednesday, April 02, 2014 8:23 AM
To: ArevaEPRDCPEm Resource
Subject: FW: US EPR DC DRAFT RAI 621, Chapter 9, Section 09.01.04 Light Load Handling Systems (Related to Refueling)
Attachments: Draft RAI 621 BPTS _7295.docx

AREVA determined that they did not require a clarification phone call; therefore the draft RAI 628 is final.

From: Miernicki, Michael
Sent: Wednesday, March 12, 2014 8:11 AM
To: Wunder, George
Cc: Hearn, Peter
Subject: FW: US EPR DC DRAFT RAI 621, Chapter 9, Section 09.01.04 Light Load Handling Systems (Related to Refueling)

FYI.

Mike

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

From: KOWALSKI David (AREVA) [<mailto:David.Kowalski@areva.com>]
Sent: Wednesday, March 12, 2014 8:01 AM
To: Miernicki, Michael; Hearn, Peter
Cc: HOTTLE Nathan (AREVA); GUCWA Len (EXTERNAL AREVA); RANSOM Jim (AREVA)
Subject: FW: US EPR DC DRAFT RAI 621, Chapter 9, Section 09.01.04 Light Load Handling Systems (Related to Refueling)

Mike/Pete:

We would like to have a clarification call to discuss Draft RAI 621 to better understand the extent of information required to address recovery or emergency plans. We can support the following days and times during next week:

- Monday, 3/17, 1:00PM - 5:00PM.
- Tuesday, 3/18, 1:00PM - 5:00PM.

I wouldn't anticipate any more than a half hour. Please let me know if any of these times work for you. Thanks.

David J. Kowalski, P.E.
Senior Licensing Engineer

Regulatory Affairs

AREVA Inc.

7207 IBM Drive, Charlotte, NC 28262

Phone: 704-805-2590

Mobile: 704-293-3346

Email: David.Kowalski@areva.com

From: Miernicki, Michael [<mailto:Michael.Miernicki@nrc.gov>]

Sent: Tuesday, November 26, 2013 1:23 PM

To: ZZ-DL-A-USEPR-DL

Cc: McKenna, Eileen; Curran, Gordon; Hearn, Peter; Segala, John; Wunder, George; ArevaEPRDCPEm Resource

Subject: US EPR DC DRAFT RAI 621, Chapter 9, Section 09.01.04 Light Load Handling Systems (Related to Refueling)

Attached please find Draft RAI No. 621 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: 4852

Mail Envelope Properties (E3D0DF334F617344BE38EB00C881B1B30142CFE455CE)

Subject: FW: US EPR DC DRAFT RAI 621, Chapter 9, Section 09.01.04 Light Load Handling Systems (Related to Refueling)
Sent Date: 4/2/2014 8:23:22 AM
Received Date: 4/2/2014 8:23:23 AM
From: Hearn, Peter

Created By: Peter.Hearn@nrc.gov

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

Post Office: HQCLSTR01.nrc.gov

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MESSAGE	2665	4/2/2014 8:23:23 AM
Draft RAI 621 BPTS _7295.docx		24839

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

DRAFT Request for Additional Information 621

Issue Date: 11/26/2013

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

Operating Company: AREVA NP Inc.

Docket No. 52-020

Review Section: 09.01.04 - Light Load Handling System (Related to Refueling)

Application Section: 9.1.4

QUESTIONS

09.01.04-42

RAI 9.1.4-16 response provides an evaluation of potential failures involving cask loading operations. The events evaluated are:

- Fuel assembly drop
- Cask drop or tip
- Improper cask docking
- Operator error
- Penetration seal failure
- Gate seal failure
- Failure of piping attached to the cask loading pit
- Failure of cask loading machine
- Seismic events
- Loss of power
- Radiological release in the loading hall

RAI 09.01.04-24 requested applicant to provide estimate on the time required to complete manual actions and describe any recovery plan. In the RAI response, the applicant described system features and potential recovery actions taken in the event of component failure due to SSE. The applicant explained, as part of recovery operations after an SSE, an operator uses the manual features of the SFM to lower the fuel assembly into the cask, or return it to the SFP and clear the loading penetration assembly.

As defined in response to RAI 9.1.4-16, many of these events are minimized or negated based on the robust design and operation of the SFCTF. However, in the event of a failure, having a well-defined recovery or emergency plan is of vital safety importance. The staff requests the applicant to provide additional details on any guidance or procedures provided for recovery from potential events or failure during cask loading