AP1000DCDFileNPEm Resource

From: Loza, Paul G. [lozapg@westinghouse.com]
Sent: Thursday, March 18, 2010 9:28 AM
To: Buckberg, Perry
Cc: Butler, Rhonda; DeBlasio, John J.; Wiseman, Dale A.
Subject: FW: RAI-SRP-5.2.3-CIB1-03 Rev. 1 - Supplemental RAI
Attachments: Supp RAI_SRP 5.2.3_CIB1_03 R1 QuikLoc.doc

Perry,

I acknowledge receipt for Westinghouse of RAI-SRP5.2.3-CIB1-03 R1.

Thanks,

Paul

From: Buckberg, Perry [mailto:Perry.Buckberg@nrc.gov]
Sent: Thursday, March 18, 2010 8:07 AM
To: DeBlasio, John J.
Cc: Loza, Paul G.; Melton, Michael A; McKenna, Eileen; Jaffe, David
Subject: RAI-SRP-5.2.3-CIB1-03 Rev. 1 - Supplemental RAI

John,

Attached is Revision 1 to RAI-SRP-5.2.3-CIB1-03. Please acknowledge receipt.

RAI-SRP-5.2.3-CIB1-03 Rev. 0 was received by Westinghouse on 11/17/2009 and its response was dated 1/15/2010 - this supplemental RAI is based on the 1/15/2010 response.

Thanks,

Perry Buckberg
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Office of New Reactors
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Hearing Identifier: AP1000_DCD_Review
Email Number: 301

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Subject: FW: RAI-SRP-5.2.3-CIB1-03 Rev. 1 - Supplemental RAI
Sent Date: 3/18/2010 9:27:53 AM
Received Date: 3/18/2010 9:33:05 AM
From: Loza, Paul G.

Created By: lozapg@westinghouse.com

Recipients:
"Butler, Rhonda" <Rhonda.Butler@nrc.gov>
Tracking Status: None
"DeBlasio, John J." <deblasjj@westinghouse.com>
Tracking Status: None
"Wiseman, Dale A." <wisemada@westinghouse.com>
Tracking Status: None
"Buckberg, Perry" <Perry.Buckberg@nrc.gov>
Tracking Status: None

Post Office: SWEC9985.w-intra.net

Files	**Size**	**Date & Time**
MESSAGE	838	3/18/2010 9:33:05 AM
Supp RAI_SRP 5.2.3_CIB1_03 R1 QuikLoc.doc	30272	

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

Supplemental RAI - **RAI SRP 5.2.3-CIB1-03 Rev. 1**

Based on your January 15, 2010 response to RAI SRP 5.2.3-CIB1-03 Revision 0, the staff has the following supplemental requests for additional information:

a) The following is in regards to Westinghouse's response to question 2:
   i. What are the dimensions of the weld buildup, and is this considered a weld buildup reinforcement to accommodate a weld prep, or is it considered to be a piping nozzle based on the weld buildup dimensions?
   ii. Provide the filler materials used for the weld buildup and the Ni-Cr-Fe weld buttering and include them in the AP1000 DCD.

b) In response to question 3, Westinghouse specified a Quickloc compression collar. Discuss how this compression type fitting meets ASME Code, Section III, Subsection NB-3671.4.

c) In response to question 8, Westinghouse stated that every time a pressure boundary part of the Quickloc is disassembled; the Grafoil seals are replaced, which includes the Quickloc Seal Carrier Assembly. In addition, it was specified that the sealing areas are inspected for scratches or any other imperfections that may prevent a proper seal and the threads of the Quickloc Nut and Quickloc instrumentation nozzle are visually inspected.
   i. Since this is an application that is not specifically addressed in the ASME Code, and is used to ensure the integrity of the reactor coolant pressure boundary, these requirements should be included in the DCD.
   ii. In addition, since this is a specific application, the DCD should include the installation inspection and inservice inspection requirements and acceptance criteria.
   iii. It should be clarified that buttering, dissimilar metal weld and the weld buildup used to fabricate the nozzle for which the Quickloc instrumentation nozzle is welded to, should be inspected to the requirements of ASME Code, Section III, Section NB-5000, including radiographic and surface examinations.

d) In response to question 8, Westinghouse provided nineteen inspection notes for the Quickloc instrumentation nozzle, the dissimilar metal weld and the weld buildup as listed on the design drawing. The following is in regards to these notes:

   i. Note 9 specifies that a radiographic test be performed on the entire weld. This note should be clarified so that the entire weld includes the weld buildup, the buttering and the dissimilar metal weld. These welds form the pressure boundary and are required to receive an inspection to verify the pressure boundary integrity.
   ii. Note 16 specifies that the dissimilar metal weld requires inservice inspections per the ASME Code, Section XI, Table IWB-2500-1, Item Number B5.10. Since the specifics of the Quickloc assembly are not covered in the ASME Code, the weld buildup and the weld buttering should also receive inservice inspections since it is part of the reactor coolant pressure boundary, and its integrity should be verified.
   iii. Note 8 specifies that the dissimilar metal weld should be ultrasonically inspected to the requirements of ASME Code, Section III, Subsection NB-

5000 and Section XI, Subsection IWB-2500. This should be clarified so that Section XI applies to inservice inspection only.