AP1000DCDFileNPEm Resource

From: Adams II, Samuel L. [adamssl@westinghouse.com]
Sent: Friday, August 01, 2008 7:18 AM
To: Michael Miernicki
Cc: Perry Buckberg; Rhonda Carmon
Subject: FW: RAI SRP3.7.2-SEB1-03
Attachments: RAI SRP3.7.2-SEB1-03.doc

Hi Mike,

I acknowledge receipt of the attached RAI on SRP 3.7.2.

I will let you know as soon as possible if a clarification call is necessary.

Thanks.

Sam

From: Michael Miernicki [mailto:Michael.Miernicki@nrc.gov]
Sent: Thursday, July 31, 2008 2:48 PM
To: Adams II, Samuel L.
Cc: Perry Buckberg; Rhonda Carmon
Subject: RAI SRP3.7.2-SEB1-03

Sam, please see attached RAI and let me know as soon as possible whether Westinghouse understands this question or if a conference call is necessary for any clarification. Thanks.

Mike

Michael J. Miernicki
Project Manager
NRC/NRO/DNRL/NWE2
301-415-2304

Hearing Identifier: AP1000_DCD_Review
Email Number: 83

Mail Envelope Properties (9950B72C4C6D8D43958795C414DE477A075279FC)

Subject: FW: RAI SRP3.7.2-SEB1-03
Sent Date: 8/1/2008 7:17:52 AM
Received Date: 8/1/2008 7:23:02 AM
From: Adams II, Samuel L.

Created By: adamssl@westinghouse.com

Recipients:
"Perry Buckberg" <Perry.Buckberg@nrc.gov>
Tracking Status: None
"Rhonda Carmon" <Rhonda.Carmon@nrc.gov>
Tracking Status: None
"Michael Miernicki" <Michael.Miernicki@nrc.gov>
Tracking Status: None

Post Office: SWEC9910.w-intra.net

Files	**Size**	**Date & Time**
MESSAGE	677	8/1/2008 7:23:02 AM
RAI SRP3.7.2-SEB1-03.doc	24128	

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

RAI SRP 3.7.2-SEB1-03

APP-GW-GLE-016, Revision 0, June 2008, "AP1000 DCD Impact Document - Impact of In-Core Instrumentation Grid, Quicklocs and Changes to Integrated Head Package (IHP)"

In APP-GW-GLE-016, Revision 0, June 2008, section I. TECHNICAL DESCRIPTION, Westinghouse describes the instrument grid assembly that is added to the reactor vessel upper internals package. A number of design changes are identified for which the staff needs additional information, since they potentially affect the seismic analysis of the coupled containment internal structure/RCS:

- The shielding of the IHP has been reduced.

- The thimble rig is eliminated and the lower weight of the IHP allows for a smaller more compact lifting rig. Since the lifting rig is much smaller it remains on the IHP at all times during operation and refueling.

- The lower weight of the IHP allows the four CRDM cooling fans to be mounted directly on the IHP shroud structure. This eliminates the large plenums and ductwork as well as the CH-40 module that held the plenum, ductwork and four CRDM cooking fans.

- The seven inch thick seismic support plate is replaced with a thinner plate. The seismic support function of this plate is replaced by a seismic support system of the type used in the Westinghouse operating fleet.

- Since the IITAs remain underwater and are stored in the upper internals stand in the flooded reactor refueling cavity, a conventional head stand is used during refueling outages. This eliminates the large IHP head stand/water tank.

The staff requests Westinghouse to provide the following additional information related to these design changes:

(a) identify the original mass and the new mass of the RPV;
(b) identify the original cg location and the new cg location for the RPV;
(c) describe any seismic re-analyses that have been conducted as a result of these design changes;
(d) if no re-analysis has been conducted, provide the technical basis for concluding that these design changes have no effect on (1) the seismic response of structures and (2) the seismic response of the RCS, including the RPV.