AP1000DCDFileNPEm Resource

From: Loza, Paul G. [lozapg@westinghouse.com]
Sent: Thursday, April 29, 2010 11:09 AM
To: Buckberg, Perry; Melton, Michael A
Cc: McKenna, Eileen; Jaffe, David; Mulhollem, Luke G.
Subject: RE: OI-SRP 9.1.3-SBPA-13 Rev. 1

Perry,

I acknowledge receipt for Westinghouse of OI-SRP9.1.3-SBPA-13 Rev. 1 below.

Thanks,

Paul Loza

From: Buckberg, Perry [mailto:Perry.Buckberg@nrc.gov]
Sent: Wednesday, April 28, 2010 10:22 AM
To: Loza, Paul G.; Melton, Michael A
Cc: McKenna, Eileen; Jaffe, David
Subject: OI-SRP 9.1.3-SBPA-13 Rev. 1

Paul,

During the staff's preparation of SER input, in issue was discovered in the 2/10/10 response to OI-SRP 9.1.3-SBPA-13. Below is Rev.1 to
OI-SRP 9.1.3-SBPA-13. Please acknowledge receipt.

Thanks,

Perry Buckberg
Senior Project Manager
Nuclear Regulatory Commission
Office of New Reactors
phone: (301)415-1383
fax: (301)415-5397
perry.buckberg@nrc.gov

OI-SRP 9.1.3-SBPA-13 Rev. 1:

Part 1

In the 2/10/10 response letter to OI-SRP 9.1.3-SBPA-13, Note 6 in table 9.1-4 "Station Blackout/Seismic Event Times" states:

> Alignment of the PCS ancillary water storage tank and initiation of PCS recirculation pumps provide a makeup
> water supply to maintain this pool level or higher above the top of the fuel.

The PCS ancillary water storage tank is a RTNSS system, and as such it should not be credited for accident mitigation prior to 72 hours after the seismic event. AP1000 DCD Revision 17 added this note to the first offloading scenario, water level prior to 72 hrs.

Crediting a RTNSS system for accident mitigation prior to 72 hrs is inconsistent with the system description provided in the DCD Section 9.1.3.4.3, “Abnormal Conditions,” inconsistent with the system description provided in the TS Basis for TS 3.7.9, and inconsistent with the staff position documented in the FSER for AP600, AP1000 Rev.15, on SECY-94-084 and SECY-98-161

DCD Section 9.1.3.4.3 states:

> During the first 72 hours any required makeup water is supplied from safety related sources. If makeup water beyond the safety related sources is required between 72 hours and 7 days, water from the passive containment cooling system ancillary water storage tank is provided to the spent fuel pool.

The staff requests that the applicant reconcile the inconsistency between the system description provided in DCD Tier 2 Section 9.1.3.4.3, the TS Basis, and Table 9.1-4. The staff also requests that the applicant clarify/justify if the AP1000 design is in accordance with the established staff position, or if the design is being change to introduce a new design basis.

Part 2

In Response to OI-SRP9.1.3-SBPA-13, the applicant provided a DCD markup of Tier 2 Section 9.1.3.4.3, “Abnormal Conditions,” changing the heat load values for several offload conditions and scenarios. The staff determined that the changes identified in the OI response where consistent with the revised thermal analysis report for the SFP. Heat loads values are also reflected in DCD Tier 2 Section 16, “Technical Specifications,” (TS) 3.7.9 and its basis.

The staff requests that the applicant reconcile the inconsistencies between the new heat loads presented in Section 9.1.3.4.3 and the TS (and its basis).

Hearing Identifier: AP1000_DCD_Review
Email Number: 351

Mail Envelope Properties (27265BDD489F164BAB98F1FFF63719724246D425)

Subject: RE: OI-SRP 9.1.3-SBPA-13 Rev. 1
Sent Date: 4/29/2010 11:09:05 AM
Received Date: 4/29/2010 11:09:15 AM
From: Loza, Paul G.

Created By: lozapg@westinghouse.com

Recipients:
"McKenna, Eileen" <Eileen.McKenna@nrc.gov>
Tracking Status: None
"Jaffe, David" <David.Jaffe@nrc.gov>
Tracking Status: None
"Mulhollem, Luke G." <MulholLG@westinghouse.com>
Tracking Status: None
"Buckberg, Perry" <Perry.Buckberg@nrc.gov>
Tracking Status: None
"Melton, Michael A" <melto1ma@westinghouse.com>
Tracking Status: None

Post Office: SWEC9985.w-intra.net

Files	**Size**	**Date & Time**
MESSAGE	3164	4/29/2010 11:09:15 AM

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