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Your ref: Docket No. 52-006
Our ref: DCP/NRC2199

July 11, 2008

Subject: AP1000 Response to Request for Additional Information (SRP14.2)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 14.2. This RAI response is submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information included in the response is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification and the AP1000 Design Certification Amendment Application.

A response is provided for RAI-SRP14.2-CQVP-09 and -10 as sent in an email from Dave Jaffe to Sam Adams dated May 2, 2008. This response completes all requests received to date for SRP Section 14.2. A response to RAI-SRP14.2-CQVP-01 thru -08 and -11 was submitted under letter DCP/NRC2162 dated June 20, 2008.

Questions or requests for additional information related to the content and preparation of this response should be directed to Westinghouse. Please send copies of such questions or requests to the prospective applicants for combined licenses referencing the AP1000 Design Certification. A representative for each applicant is included on the cc: list of this letter.

Very truly yours,

for/ John J. DeBlasio

Robert Sisk, Manager
Licensing and Customer Interface
Regulatory Affairs and Standardization

/Enclosure

1. Response to Request for Additional Information on SRP Section 14.2

cc:	D. Jaffe	- U.S. NRC	1E
	E. McKenna	- U.S. NRC	1E
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ENCLOSURE 1

Response to Request for Additional Information on SRP Section 14.2

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI-SRP14.2-CQVP-09
Revision: 0

Question:

Subsection 14.2.9.1.8 of the Westinghouse DCD, Revision 16, "Control Rod Drive System," states that, as a prerequisite for the control rod drive mechanism cooling test, "the plant is at or near normal operating temperature and pressure, and post-core hot functional testing is in progress." The word "post-core" was added to the test abstract as part of Revision 16 of the DCD. Provide justification for this change.

Westinghouse Response:

The addition of the words "post core" to modify "hot functional testing" was only an editorial change, made to clarify the fact this testing on the Control Rod Drive system can only occur after the control rods are installed – in other words, after the core is loaded.

It was made to clarify the statement only.

Design Control Document (DCD) Revision:
None

PRA Revision:
None

Technical Report (TR) Revision:
None

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI-SRP14.2-CQVP-10

Revision: 0

Question:

Subsection 14.2.9.1.3 of the Westinghouse DCD, Revision 16, describes preoperational testing of the Passive Core Cooling System. Under General Test Methods and Acceptance Criteria, item t), Westinghouse describes testing of the squib valves as they relate to verification of the passive core cooling system safety injection function. Specifically, it provides for demonstration of proper operation of at least one squib valve size and type, and it further states that the squib valve performance and flow resistance of the actuated squib valves will be compared to the squib valve qualification testing results. Finally, Westinghouse states that this test does not have to be performed in the plant. This last sentence was added to the test abstract as part of Revision 16 of the DCD. Provide justification for this change.

Westinghouse Response:

The last sentence of this section was added as an editorial change to clarify that this testing could be done without causing the risk of an actual safety injection into the core.

The reliability of these valves can be verified without the valves actually being installed in the operating passive core cooling system.

Design Control Document (DCD) Revision:

None

PRA Revision:

None

Technical Report (TR) Revision:

None