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Your ref: Docket No. 52-006
Our ref: DCP_NRC_002590

August 28, 2009

Subject: AP1000 Response to Request for Additional Information (SRP 7)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 7. This RAI response is submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information included in this response is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification and the AP1000 Design Certification Amendment Application.

Enclosure 1 provides the response for the following RAI(s):

RAI-SRP7.1-ICE-07 R2

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,

A handwritten signature in black ink, appearing to read "Robert Sisk".

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

/Enclosure

1. Response to Request for Additional Information on SRP Section 7

cc:	D. Jaffe	- U.S. NRC	1E
	E. McKenna	- U.S. NRC	1E
	S. K. Mitra	- U.S. NRC	1E
	T. Spink	- TVA	1E
	P. Hastings	- Duke Power	1E
	R. Kitchen	- Progress Energy	1E
	A. Monroe	- SCANA	1E
	P. Jacobs	- Florida Power & Light	1E
	C. Pierce	- Southern Company	1E
	E. Schmiech	- Westinghouse	1E
	G. Zinke	- NuStart/Entergy	1E
	R. Grumbir	- NuStart	1E
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ENCLOSURE 1

Response to Request for Additional Information on SRP Section 7

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI-SRP7.1-ICE-07

Revision: 2

Question (Revision 0):

Provide the current revision of AP1000 NuStart Protection and Safety Monitoring System Project Concept Phase V&V Summary Report.

Based upon a phone conversation on April 18th, 2008, Westinghouse stated that a current revision of the summary report was available and included the final lists of issues raised during the verification and validation portion of design requirements phase of the project, with their resolution.

Westinghouse Response (Revision 0):

The requested document will be available in the Westinghouse Rockville office by July 31, 2008.

Westinghouse REVISED response based on NRC comments from the January 29-30 meeting (Revision 1):

WNA-PV-00009-GEN, "Verification & Validation Process for the Common Q Safety Systems," states that anomaly reports are generated in each phase of the project lifecycle. This document was submitted for NRC review in January 2009 to the Westinghouse Twinbrook office.

The anomalies are documented in the initial revision of the phase summary report. To track closure of these anomaly reports, Verification and Validation (V&V) uses the Error Report Process described in Exhibit 9-1 of WCAP-16096-NP-A, "Software Program Manual for Common Q Systems." For WNA-VR-00213-GEN, "AP1000 NuStart Protection and Safety Monitoring System Project Concept Phase V&V Summary Report," the issues were listed, and a reference to Exception Report V&V-644 was made to track closure of the anomalies. The Exception Report was closed out on July 1, 2008. This is noted in Section 3 of APP-PMS-GER-020, Revision 1, which superseded WNA-VR-00213-GEN, where Exception Report V&V-644 is explicitly cited as closed. At the same time, a new anomaly, V&V-649, was reported in Section 4 of the report with details in the Appendix. Therefore, each revision of the Phase Summary Report carries over the anomalies that were identified as open in the prior revision and re-status them. Each revision also documents the new anomalies. The above referenced documents were submitted for NRC review in October 2008 to the Westinghouse Twinbrook office.

Westinghouse supplemented response based on discussions with the NRC at the April 2009 Regulatory Audit held at Cranberry Woods (Revision 2):

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

Westinghouse will improve the readability of the Phase Summary Reports by presenting the current status of anomalies documented for the reported phase in one dedicated section. APP-PMS-GER-020 will be revised to reflect ongoing IV&V activities during the concept phase of the software lifecycle. Revision 2 of the V&V Concept Phase Summary report will be made available at the Westinghouse Rockville office by September 8, 2009.

Design Control Document (DCD) Revision:

None

PRA Revision:

None

Technical Report (TR) Revision:

None