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Your ref: Docket No. 52-006  
Our ref: DCP/NRC2336

December 23, 2008

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

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 14. 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.

Enclosure 1 provides the response for the following RAIs:

RAI-SRP14.3.4-SRSB-01

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 14

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

Response to Request for Additional Information on SRP Section 14

# AP1000 TECHNICAL REPORT REVIEW

## Response to Request For Additional Information (RAI)

RAI Response Number: RAI-SRP14.3.4-SRSB-01  
Revision: 0

### Question:

The NRC staff reviewed DCD Section 5.4.7 Revision 16 in conjunction with DCD Tier 1 Section 2.3.6 in accordance with SRP 14.3.4 and RG 1.68. The NRC staff identified the valves listed in the table below as valves that should be included as part of the ITAAC program of DCD Tier 1 Section 2.3.6, Table 2.3.6-1 and Figure 2.3.6-1. These valves were considered by the NRC staff as part of the ITAAC program because the valves are in the primary flow path of the NRS system which performs the functions described in DCD Section 5.4.7 and Tier 1 section 2.3.6 with exception of V004A/B and V045.

Please include these valves in ITAAC DCD Tier 1 Section 2.3.6 or provide the justification to exclude these valves from the ITAAC program.

Valve Number	Description	Table 2.3.6-1	Figure 2.3.6-1
V005A/B	RNS Pump Suction Isolation	N	N
V006A/B	HX Outlet Flow Control	N	N
V007A/B	RNS Pump Discharge Isolation	N	N
V008A/B	RNS HX Bypass Flow Control	N	N
V029	RNS Discharge to CVS	N	N
V045	RNS Discharge Header Relief Valve	Y	N
V052	RNS Pump Suction from Spent Fuel Pool Isolation	N	N
V053	RNS Pump Discharge to Spent Fuel Pool Isolation	N	N

N = Not presently in Table 2.3.6-1 or Figure 2.3.6-1  
Y = Presently in Table 2.3.6-1 or Figure 2.3.6-1

### Westinghouse Response:

Westinghouse has not altered the design to change the functions of these valves or the functions of the RNS. The determination that these valves do not need to be included in the Tier 1 table is not altered from the DCD that is referenced by the Design Certification. Therefore not including these valves in the Tier 1 table is covered by design finality.

The portions of the design in which these valves are located do not have active safety related functions. This is why they are not included in the Tier 1 table and figure. Power generation

# AP1000 TECHNICAL REPORT REVIEW

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and backup functions do not need to be included in Tier 1 descriptions. These valves are designed to ASME Code Section III, Class 3 to provide augmented integrity to address intersystem LOCA. This function is unchanged from the certified design.

**Design Control Document (DCD) Revision: N/A**

**PRA Revision: N/A**

**Technical Report (TR) Revision: N/A**