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Your ref: Docket No. 52-006
Our ref: DCP/NRC2366

January 28, 2009

Subject: AP1000 Responses to Requests for Additional Information (SRP 5)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 5. 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:

RAI-SRP5.4.7-SRSB-03

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,


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

/Enclosure

1. Response to Request for Additional Information on SRP Section 5

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 5

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI-SRP 5.4.7-SRSB-03
Revision: 0

Question:

In DCD Tier 1, Section 2.3.6, Table 2.3.6-1, The Active Function of the RNS Discharge motor-operated containment isolation valve RNS-PL-V011 is changed from "Transfer Open/Transfer Closed" to "Transfer Closed." Also the RNS suction CIV RNS-PL-V022 is also listed in Table 2.3.6-1 as Transfer Closed. In Tier 1 Section 1.1, definitions that apply to terms used in the design and ITAAC descriptions provide the following definition: Transfer Open (Closed) means to move from a closed (open) position to an open (closed) position. The definition does not clarify the selection of the Active Function for the valves in Table 2.3.6-1.

Provide an explanation on the selection process for the valves' "Active Function". (Also, since both RNS-PL-V011 and RNS-PL-V022 are normally closed, explain why their active functions are transfer closed.)

Westinghouse Response:

The ASME OM Code definition is used to select valves which have active functions. Active valves as defined by the Code are those "valves that are required to change obturator position to accomplish a specific function in shutting down a reactor to the safe shutdown condition, maintaining the safe shutdown condition, or mitigating the consequences of an accident." This definition is transferred to the AP1000 DCD in Sections 3.9.2.2 and 3.9.6.

Valves RNS-PL-V011 and RNS-PL-V022 are considered active to transfer closed. These valves are required to close in the event RNS isolation is required during conditions when RNS is operating during mode 4 with both of the subject valves open. This active transfer closed function is safety related.

References:

1. ASME OM Code
2. AP1000 DCD, Tier 2, Section 3.9.6

Design Control Document (DCD) Revision:

None

PRA Revision:

None

Technical Report (TR) Revision:

None

