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Your ref: Docket No. 52-006
Our ref: DCP/NRC2349

January 12, 2009

Subject: AP1000 Response to Request for Additional Information (SRP 9)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 9. 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 SRP9.1.5-SBPB-12

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', written over a horizontal line.

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

/Enclosure

1. Response to Request for Additional Information on SRP Section 9

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

Response to Request for Additional Information on SRP Section 9

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI-SRP 9.1.5-SBPB-12
Revision: 0

Question:

In Revision 16 to the DCD, Sections 9.1.5.2.1.1 and 9.1.5.2.2.1, the applicant has proposed the addition of remote control operation for the Polar Crane and the Cask Handling Crane. TR-106 Revision 1, states that allowing the cask handling crane to be operated by radio remote control instead of only the operator's cab will allow for an unobstructed view of the load at all times. Special consideration was given to loads being lifted and lowered out of and into the truck/rail bay. The cask handling crane radio remote will meet ASME NOG-1 paragraph 6110 guidelines. TR-106 Revision 1 also states that wording for the polar crane operation is changed from "pendant controls" to "remote control" as a secondary means of control. This would ensure consistency in design and operations of the two single-failure proof cranes (polar and cask handling). The staff previously reviewed TR-106 Revision 1 specifically for the addition of the radio remote control for the cask handling crane and remote control for the polar crane, and found the additions acceptable and in compliance with GDCs 4, 5, 13, and 24.

However, the applicant needs to specify the licensing basis for the remote control features of the polar crane and the cask handling crane in the DCD and establish ITAAC to verify that the plant meets the licensing basis. Specific to the DCD, the applicant needs to state: a) the remote control features of the polar crane and cask handling crane will not interfere with any systems, structures and components (SSC) important to safety in accordance with GDC-4; b) the remote control systems will not be shared with multiple unit sites or interfere with other units at the site in accordance with GDC-5; c) remote control systems will maintain variables and systems within prescribed operating ranges in accordance with GDC 13; d) remote control systems will be separate from protection systems such that failure of the control system leaves the protection systems intact satisfying all reliability, redundancy, and independence requirements in accordance with GDC 24.

Westinghouse Response:

A) The remote control system will comply with Section 8: Electromagnetic Compatibility (EMC Qualifications) of the Equipment Qualification Methodology (EQ) plan. APP-GW-G1-002, Revision 1.

The transmitter power of the remote control system will be set to a level that will allow continuous communications with the crane receiver throughout the operations area. The signal level will be initially adjusted to minimize signal propagation to areas outside of the cranes normal operating area.

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

B. & C.): The remote control system will be designed such that it can be integrated into the operating site's frequency plan.

D) The remote control system will be designed to fail into a safe mode of operation in the event of a loss of communications or failure of the portable remote unit. The emergency stop button on the remote control will also be redundantly monitored. In the event of a system failure all crane movements are halted.

Design Control Document (DCD) Revision:

None

PRA Revision:

None

Technical Report (TR) Revision:

None