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Your ref: Docket No. 52-006  
Our ref: DCP/NRC2341

January 13, 2009

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

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 6. 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 RAIs:

SRP6.2.4-SPCV-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 cursive script, 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 6

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

Response to Request for Additional Information on SRP Section 6

# AP1000 TECHNICAL REPORT REVIEW

## Response to Request For Additional Information (RAI)

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RAI Response Number: RAI-SRP6.2.4-SPCV-01  
Revision: 0

### **Question:**

10CFR 50, Appendix A, General Design Criteria 55, 56, and 57 require that containment isolation valves outside containment be located as close to containment as practical. Standard Review Plan 6.2.4, Containment Isolation System, Acceptance Criterion 9 also invokes this requirement and directs the reviewer to review the location of the valves with respect to the containment. In the DCD, Rev. 16 amendment, the normal position of an outside containment isolation valve is being changed and Table 6.2.3-1, Containment Mechanical Penetrations and Isolation Valves, is being revised, however the length of pipe from the containment to the outboard containment isolation valve is not provided. Provide the length of pipe from the containment to the outboard containment isolation valve.

### **Westinghouse Response:**

Please see the attached table for length of pipe from the containment vessel to the outboard containment isolation valves listed in AP1000 DCD Tier 2 Table 6.2.3-1. The values in this table are defined by the AP1000 piping isometrics for the respective systems penetrating the containment vessel.

Routing of containment isolation outboard piping has been carefully addressed in the AP1000 Standard Plant Design. GDCs 55, 56, and 57 have all been considered and utilized in the layout of these specific lines. Several factors which impact the lengths of pipe required are ALARA considerations, larger pipe diameters, and space provision for maintenance.

### **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)

### Attachment 1: Length of Pipe to Outboard Containment Isolation Valve

Containment to Valve	Length
CAS-PL-V014	8' 6 3/8"
CAS-PL-V204	8' 6 1/4"
CCS-PL-V200	8' 8 5/8"
CCS-PL-V208	8' 2 9/16"
CVS-PL-V041	18' 10 5/16"
CVS-PL-V042	21' 1 5/16"
CVS-PL-V047	36' 1 5/16"
CVS-PL-V090	31' 3/8"
CVS-PL-V092	22' 4"
DWS-PL-V244	27' 11 11/16"
FPS-PL-V050	56' 8 1/8"
PSS-PL-V011	12' 7 1/2"
PSS-PL-V023	15' 7 7/8"
PSS-PL-V046	13' 2 5/8"
PXS-PL-V042	9' 3 13/16"
RNS-PL-V011	25' 4 7/8"
RNS-PL-V022	42' 4 1/8"
SFS-PL-V035	30' 9 5/16"
SFS-PL-V038	19' 8 13/16"
SGS-PL-V027A	67' 2 1/2"
SGS-PL-V027B	67' 2 1/2"
SGS-PL-V030A	11' 2 1/2"
SGS-PL-V030B	11' 2 1/2"
SGS-PL-V031A	14' 5 1/2"
SGS-PL-V031B	14' 5 1/2"
SGS-PL-V032A	17' 8 1/2"

Containment to Valve	Length
SGS-PL-V032B	17' 8 1/2"
SGS-PL-V033A	20' 11 1/2"
SGS-PL-V033B	20' 11 1/2"
SGS-PL-V034A	23' 1 1/2"
SGS-PL-V034B	23' 1 1/2"
SGS-PL-V035A	27' 5 1/2"
SGS-PL-V035B	27' 5 1/2"
SGS-PL-V036A	39' 4 13/16"
SGS-PL-V036B	39' 4 13/16"
SGS-PL-V040A	29' 1/8"
SGS-PL-V040B	29' 1/8"
SGS-PL-V057A	22' 7 9/16"
SGS-PL-V057B	22' 7 9/16"
SGS-PL-V067A	28' 2 9/16"
SGS-PL-V067B	26' 8 7/16"
SGS-PL-V074A	13' 7 9/16"
SGS-PL-V074B	12' 8 1/8"
SGS-PL-V240A	44' 3 9/16"
SGS-PL-V240B	44' 3 9/16"
VFS-PL-V003	32' 11 1/2"
VFS-PL-V010	33' 1 13/16"
VWS-PL-V058	8' 11 1/8"
VWS-PL-V086	8' 9 1/8"
WLS-PL-V057	38' 10 1/16"
WLS-PL-V068	49' 5 1/2"