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Your ref: Docket No. 52-006
Our ref: DCP_NRC_002851

April 16, 2010

Subject: AP1000 Response to Request for Additional Information (SRP 6)

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 RAI(s):

RAI-SRP6.2.2-SPCV-32

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,

D. A. Lindgren /FOR

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

/Enclosure

1. Response to Request for Additional Information on SRP Section 6

D063
NRO

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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)

RAI Response Number: RAI-SRP6.2.2-SPCV-32
Revision: 0

Question:

In APP-GW-GLE-002 Rev. 5, the description of when the spherical ZOI was applied was changed from "when there are intervening components, supports, structures, or other objects" to "when they are not shielded by intervening components, supports, structures, or other objects". The assumed basis of the original text was that the spherical ZOI only applied when there were other objects around because these objects could reflect and attenuate the LOCA jet into a spherical shape rather than the cylindrical shape. The revised text seems to apply the spherical ZOI even if there are no intervening components. Provide an explanation of the change.

Westinghouse Response:

The change described above in APP-GW-GLE-002, Rev. 5 was made in error. Westinghouse will change the sentence back to the wording in DCD Revision 17.

Design Control Document (DCD) Revision:

None

PRA Revision:

None

Technical Report (TR) Revision:

APP-GW-GLE-002, Rev. 7 will be updated to change the sentence back to the wording in DCD Revision 17.

6.3.2.2.7.1 General Screen Design Criteria

3.

In order to provide additional margin, metal reflective insulation is used inside containment where it would be subject to jet impingement during loss-of-coolant accidents that are not otherwise shielded from the blowdown jet. As a result, fibrous debris is not generated by loss-of-coolant accidents. Insulation located within the zone of influence (ZOI), which is a spherical region within a distance equal to 29 inside diameters (for Min-K, Koolphen-K, or rigid cellular glass insulation) or 20 inside diameters (for other types of insulation) of the LOCA pipe break, is assumed to be affected by the LOCA when ~~they are not shielded by~~ there are intervening components, supports, structures, or other objects.