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Your ref: Docket No. 52-006
Our ref: DCP/NRC2515

June 4, 2009

Subject: AP1000 COL Standard Technical Report Submittal of APP-GW-GLR-005, Revision 3 (TR-09)

In support of the AP1000 Design Certification Amendment Application, Westinghouse is submitting Revision 2 of APP-GW-GLR-005 AP1000 Standard Combined License Technical Report (TR-09). The purpose of TR-09 is to summarize the design of containment vessel elements (reinforcement) adjacent to concentrated masses (penetrations) in compliance of COL Information Item 3.8-1.

Revision 0 of the report addressed the equipment hatches and the airlocks. In a December 2006 meeting in Pittsburgh, the NRC asked that the report also address the main steam and feedwater penetrations and a round of Requests for Additional Information (RAIs) was received. Revision 1 to Technical Report 9 describes the final design of penetration reinforcement for the main steam and feedwater penetrations, and addresses the responses to the RAIs. It also addresses the effect of extending the applicability of the AP1000 containment vessel design to soil sites.

Additional RAIs were received via NRC letter dated May 18, 2007 from Mike Miernicki to Andrea Sterdis, "Westinghouse AP1000 Combined License Pre-Application Technical Report 9 - Request for Additional Information (TAC NO. MD 1847)." Responses to these RAIs are incorporated into Revision 2 to Technical Report 9 as follows: responses to RAI-TR09-001 through RAI-TR09-008, provided via letter DCP/NRC1986 dated September 5, 2007; responses to RAI-TR09-001 R1, -004 R1, -005 R1, and -006 R1, provided via letter DCP/NRC2131 dated May 2, 2008; response to RAI-TR09-008 R1, provided via letter DCP/NRC2132 dated May 12, 2008; and responses to RAI-TR09-001 R2, -003 R1, -004 R2, -005 R2, -006 R2, and -008 R2, provided via letter DCP/NRC2261, dated September 15, 2008.

The containment vessel design specification claims the ASME BPVC exemption from detailed fatigue analysis for cyclic operation. During the NRC review of seismic issues and analyses held April 13-17, 2009, the staff asked that this provision be confirmed, which Westinghouse subsequently did with calculation APP-MV50-GEC-001 R1. Revision 3 to Technical Report 9 was prepared to add this explanation and a reference to this calculation.

The information included in this report is generic and is expected to apply to all COL applications referencing the AP 1000 Design Certification and the AP1000 Design Certification Amendment Application.

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It is expected that when the NRC review of Technical Report Number 9 is complete, the changes to the AP1000 DCD identified in Technical Report 9 will be considered approved generically for COL applicants referencing the AP1000 Design Certification and that COL Information Item 3.8-1 will be closed.

Questions or requests for additional information related to content and preparation of this report 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. APP-GW-GLR-005, Revision 3 (Technical Report 9)

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