

August 29, 2006

Ms. Andrea Sterdis, Manager
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P.O. Box 355
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SUBJECT: WESTINGHOUSE AP1000 COMBINED LICENSE (COL) PRE-APPLICATION
TECHNICAL REPORT 8 - REQUEST FOR ADDITIONAL INFORMATION
(TAC NO. MD2175)

Dear Ms. Sterdis:

By letters dated June 5, 2006 (DCP/NRC1747) and July 19, 2006 (DCP/NRC1763), you submitted AP1000 Technical Report 8, "Leak-Before-Break Evaluation of As-Designed Piping," which summarizes the results of leak-before-break evaluations performed in accordance with AP1000 Design Control Document Section 3.6.4.2. The NRC staff has reviewed the application, and has determined that additional information is required. Our questions are provided in the Enclosure. These questions were discussed with your staff on August 22, 2006. Your staff indicated that you would attempt to provide your response by September 29, 2006.

Please contact me at (301) 415-1313, if you have any other questions on these issues.

Sincerely,

/RA/

Steven D. Bloom, Senior Project Manager
AP1000/EPR Projects Branch
Division of New Reactor Licensing
Office of Nuclear Reactor Regulation

Project No. 740

Enclosure: Request for Additional Information

cc w/encl: See next page

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cc w/encl: See next page

ADAMS ACCESSION NO.:MI062350476

OFFICE	NAPB: PM	NAPB: BC
NAME	SBloom	SCoffin
DATE	08/23/06	08/25/06

OFFICIAL RECORD COPY

REQUEST FOR ADDITIONAL INFORMATION

WESTINGHOUSE AP1000 DOCUMENT NO. APP-GW-GLR-022, Rev 1

TECHNICAL REPORT 8 - AP1000 LEAK-BEFORE-BREAK EVALUATION OF AS-DESIGNED
PIPING

PROJECT NUMBER 740

- TR8-1 On page 47 of the report, you present a new bounding analysis curve (proposed DCD Figure 3B-22) for the 8" automatic depressurization system stages 2 and 3 piping that replaces the current approved DCD Figure 3B-16 for the same piping. Please demonstrate that by lowering the operating temperature of the piping system from 653 EF to 250 EF, you can raise the upper bounding curve for the piping system from 40 ksi to about 49 ksi. Your justification should include current and revised key parameters such as the leakage flaw size and all input parameters used in the new bounding analysis curve calculation so that the staff can perform an independent verification.
- TR8-2 Please explain the process of collecting the pertinent results from your stress reports, transporting them as input to a spread-sheet file (I assume) for additional calculations, and validating your final results as plotted in the bounding analysis curves. The staff needs this information so that independent calculations need not be performed for every LBB system.
- TR8-3 On page 2 of the report, you state, "[a]n addition of RCS-L131A will be made in the Automatic Depressurization System Stage 2, 3 (Upper Tier), and therefore...Figure 3B-10 of the DCD will be revised." Figure 4-13 on page 59 indicates that RCS-L131A consists of a 14" line and a 8" line. If this is the case, then use of the boundary analysis curve of Figure 3B-10 may not be adequate because Figure 3B-10 is for a 14" line only. Please clarify.

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