



Westinghouse Electric Company
Nuclear Power Plants
P.O. Box 355
Pittsburgh, Pennsylvania 15230-0355
USA

U.S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, D.C. 20555

Direct tel: 412-374-6206
Direct fax: 412-374-5005
e-mail: sisk1rb@westinghouse.com

Your ref: Docket No. 52-006
Our ref: DCP/NRC2303

December 2, 2008

Subject: AP1000 Response to Request for Additional Information (SRP3)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 3. This RAI response is submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information included in the response is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification and the AP1000 Design Certification Amendment Application.

A response is provided for the following RAIs:

RAI SRP 3.9.1-EMB1-03 Rev. 1

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 white background.

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

/Enclosure

1. Response to Request for Additional Information on SRP Section 3

| | | | |
|-----|--------------|-------------------------|----|
| cc: | B. Gleaves | - U.S. NRC | 1E |
| | E. McKenna | - U.S. NRC | 1E |
| | S. K. Mitra | - U.S. NRC | 1E |
| | P. Ray | - TVA | 1E |
| | P. Hastings | - Duke Power | 1E |
| | R. Kitchen | - Progress Energy | 1E |
| | A. Monroe | - SCANA | 1E |
| | J. Wilkinson | - Florida Power & Light | 1E |
| | C. Pierce | - Southern Company | 1E |
| | E. Schmiech | - Westinghouse | 1E |
| | G. Zinke | - NuStart/Entergy | 1E |
| | R. Grumbir | - NuStart | 1E |
| | D. Lindgren | - Westinghouse | 1E |

ENCLOSURE 1

Response to Request for Additional Information on SRP Section 3

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI SRP3.9.1-EMB1-03
Revision: 1

Question:

During the on-site technical review held the week of October 20, 2008, of ASME Class 1 piping for the AP1000 DCA, the NRC staff found the applicant used a computer program called WESTEMS for fatigue analysis of seismic Category I components and supports. This program is not discussed in subsection 3.9.1.2 of the DCD, nor is it contained in Table 3.9-15. The Staff requests that the applicant address this DCD conformance issue.

Westinghouse Response:

WESTEMS is used for fatigue analysis of seismic Category I components. It is not used for fatigue analysis of supports.

Westinghouse will revise Table 3.9-15 in the DCD to include this program. The text in Section 3.9.1.2 does not need to be revised to include this program.

Design Control Document (DCD) Revision:

Add an entry to Table 3.9-15 as follows:

| Table 3.9-15 | |
|---|---|
| COMPUTER PROGRAMS FOR SEISMIC CATEGORY 1 COMPONENTS | |
| Program | Application |
| FLOW 3D | Finite element fluid flow and heat transfer |
| WESTEMS | Fatigue analysis of components |

PRA Revision:

None

Technical Report (TR) Revision:

None