



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/NRC2269

October 1, 2008

Subject: AP1000 Response to Request for Additional Information (SRP6.2.1.1)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 6.2.1.1. 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 RAI-SRP6.2.1.1-SPCV-05 as sent in an email from Billy Gleaves to Sam Adams dated August 18, 2008. This response completes one of five requests received to date for SRP Section 6.2.1.1.

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'.

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

/Enclosure

1. Response to Request for Additional Information on SRP Section 6.2.1.1

cc: D. Jaffe - U.S. NRC 1E  
E. McKenna - U.S. NRC 1E  
B. Gleaves - 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. Behnke - Westinghouse 1E

ENCLOSURE 1

Response to Request for Additional Information on SRP Section 6.2.1.1

# AP1000 TECHNICAL REPORT REVIEW

## Response to Request For Additional Information (RAI)

---

RAI Response Number: RAI-SRP6.2.1.1-SPCV-05  
Revision: 0

### **Question:**

APP-GW-GLE-036 proposes changing the ambient wet bulb temperature initial condition for the containment analysis documented in DC Section 6.2. The basis for the change is stated to be a bounding sensitivity analysis performed and documented in the "Nuclear Safety Containment Analysis for AP1000." Because this reference cannot be located, provide details on the assumptions, modeling and results of the bounding sensitivity analysis.

### **Westinghouse Response:**

The reference in APP-GW-GLE-036 to "Nuclear Safety Containment Analysis" is referring to an evaluation documented in a Westinghouse Calc Note: APP-GW-GSC-040. Section 5.1.2 of this calc addresses Revised Site Temperature Limits. The conclusion is that there is no impact to the containment analysis results because the sensitivity of the WGO THIC results to the relative humidity of the environment was investigated in WCAP 15846, Rev. 1, Section 5.6 and in Appendix A.3 of the calc note (APP-GW-GSC-040). It was determined that the results are not sensitive to the relative humidity.

WCAP-15846 Rev 1 is in the NRC Agencywide Documents Access and Management System (ADAMS) under Accession Number ML041180207. Calc Note APP-GW-GSC-040 is available for review by the NRC staff in the Westinghouse Rockville Office.

### **Design Control Document (DCD) Revision:**

None

### **PRA Revision:**

None

### **Technical Report (TR) Revision:**

None