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Your ref: Docket No. 52-006
Our ref: DCP/NRC2429

April 13, 2009

Subject: AP1000 Response to Request for Additional Information (SRP 5)

Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 5. 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-SRP5.3.2-CIB1-01 R1

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,

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

/Enclosure

1. Response to Request for Additional Information on SRP Section 5

D063
NRO

cc:	D. Jaffe	-	U.S. NRC	1E
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ENCLOSURE 1

Response to Request for Additional Information on SRP Section 5

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

RAI Response Number: RAI-SRP5.3.2-CIB1-01
Revision: 1

Question:

Table 5.3-1 of the AP1000 Design Control Document (DCD), Revision (Rev.) 16, provides maximum limits for impurity elements in the AP1000 reactor vessel (RV). The maximum limit for nickel content specified in DCD Rev. 16 is 0.85% by weight. However, Table 3 in the AP1000 Generic Pressure Temperature Limits Report (PTLR) lists the maximum nickel content as 0.95%. Please resolve this discrepancy by amending either the DCD or the AP1000 PTLR to specify the same maximum nickel content of 0.85% or 0.95%. The staff notes that a change in nickel content from 0.85% to 0.95% will not impact the validity of the generic Pressure-Temperature (P-T) curves provided in the AP1000 PTLR and DCD, Rev. 16.

Westinghouse Response:

The limiting value for the girth weld nickel content shall be changed in Table 3 of the AP1000 Generic PTLR to be 0.85 wt% Ni, consistent with the value established in Section 5.3 of the AP1000 DCD, Revision 16. Westinghouse shall incorporate this change in a revision to the AP1000 Generic PTLR by the end of September 2008.

Additional Westinghouse Response based on NRC comments at 3/18/09 meeting:

The limiting value for the girth weld nickel content has been revised in Table 3 of the AP1000 Generic PTLR (Ref 1) to be 0.85 wt% Ni, consistent with the value established in Section 5.3 of the AP1000 DCD, Revision 16. Reference 1 was transmitted via letter DCP/NRC2416 dated April 2, 2009.

References

1. APP-RXS-Z0R-001, Revision 2, "AP1000 Generic Pressure Temperature Limits Report", 10/1/08

Design Control Document (DCD) Revision:

None

PRA Revision:

None

AP1000 TECHNICAL REPORT REVIEW

Response to Request For Additional Information (RAI)

Technical Report (TR) Revision:

None