

May 17, 2010

Mr. Robert Sisk, Manager  
Licensing and Customer Interface  
Regulatory Affairs and Standardization  
Westinghouse Electric Company  
P.O. Box 355  
Pittsburgh, PA 15230-0355

SUBJECT: ADVANCED FINAL SAFETY EVALUATION REPORT FOR CHAPTER 10  
TITLED "STEAM AND POWER CONVERSION SYSTEM," OF NUREG-  
1793, SUPPLEMENT 2 – AP1000 DESIGN CERTIFICATION  
AMENDMENT

Dear Mr. Sisk:

This letter transmits the Advanced Final Safety Evaluation Report (AFSER) for Chapter 10 titled, "Steam and Power Conversion System," of the United States Nuclear Regulatory Commission (NRC) staff's NUREG-1793, "Final Safety Evaluation Related to Certification of the AP1000 Standard Design," Supplement 2.

By letter dated June 22, 2009, the NRC transmitted to Westinghouse the Safety Evaluation Report with Open Items (SER/OIs) for Chapter 10 that reflected the proposed changes in the AP1000 Design Control Document (DCD), through Revision 16. At that time, Chapter 10 of the SER/OIs did not address the previously un-reviewed changes that were incorporated into Revision 17 to the DCD. Since the June 22, 2009, transmittal of Chapter 10, communications with Westinghouse and subsequent NRC staff evaluation has resulted in the issuance of the Chapter 10 AFSER which reflects all proposed changes through Revision 17 of the DCD and addresses the resolution of the OIs. This chapter will be supplemented prior to finalization due to the need to resolve confirmatory items and to address any additional proposed changes to the DCD.

Pursuant to 10 CFR 2.390, the NRC staff determined that the enclosed safety evaluation report (SER) may contain proprietary information or other categories of information that should be withheld from public disclosure. We will delay placing this document in the public document room for a period of 30 days from the date of this letter to provide you with the opportunity to comment on information in the enclosed SER that should be withheld from public disclosure. If you believe that any information in the enclosure should be withheld from public disclosure, please identify such information line by line

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and define the basis pursuant to the criteria of 10 CFR 2.390. Based on your response, both a publicly available, non-sensitive and a non-publicly available, sensitive versions will be created.

Please note that the letter and the attached enclosure taken-together are proprietary. When the letter is detached from the enclosure, the letter becomes non-proprietary.

Please feel free to contact Perry Buckberg, the Project Manager for Chapter 10, at (301) 415-1383 or perry.buckberg@nrc.gov, with any comments, concerns or questions.

Sincerely,

*/RA/*

Eileen M. McKenna, Chief  
AP1000 Projects Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-006

Enclosure:  
Safety Evaluation Report, Chapter 10, NUREG-1793, Supplement 2

cc: See next page

R. Sisk

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Sincerely,

*/RA/*

Eileen M. McKenna, Chief  
AP1000 Projects Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-006

Enclosure:  
Safety Evaluation Report Chapter 10, NUREG-1793, Supplement 2

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