

April 19, 2007

Ms. Andrea Sterdis, Manager  
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SUBJECT: WESTINGHOUSE AP1000 COMBINED LICENSE (COL) PRE-APPLICATION  
TECHNICAL REPORT 28 - REQUEST FOR ADDITIONAL INFORMATION  
(TAC NO. MD2126)

Dear Ms. Sterdis:

By letter dated May 31, 2006 (DCP/NRC1744), you submitted AP1000 Technical Report 28, "Westinghouse Setpoint Methodology for Protection Systems - AP1000," which provided information related to instrument uncertainty calculations for the reactor trip systems and engineering safeguards features actuation system functions for the AP1000 plant. The Nuclear Regulatory Commission staff has reviewed the report, and has determined that additional information is required. Our questions are provided in the Enclosure. We discussed these issues with your staff on April 16, 2007. Your staff indicated that you would attempt to provide your response within 30 days of the date of this letter.

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 Projects Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

Project No.: 740

Enclosure:  
Request for Additional Information

cc w/encl: See next page

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REQUEST FOR ADDITIONAL INFORMATION

WESTINGHOUSE AP1000 DOCUMENT NO. APP-GW-GLR-024, Rev 0

TECHNICAL REPORT 28 - SETPOINT CALCULATIONS FOR PROTECTIVE FUNCTIONS

PROJECT NUMBER 740

TR28-1      According to the Westinghouse Setpoint Methodology, TA (Total Allowance) is equal to CSA (Channel Statistical Allowance) plus Margin ( $TA = CSA + \text{Margin}$ ). All appropriate and applicable uncertainties, as defined by the AP1000 baseline design input documentation, have been considered for each Reactor Trip System (RTS)/Engineered Safety Features Actuation System (ESFAS) function to calculate the CSA. Provide technical basis regarding how Margin or TA has been calculated/developed.

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