



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

June 27, 2011

10 CFR 50.4

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

Watts Bar Nuclear Plant, Unit 2  
NRC Docket No. 50-391

**Subject: WATTS BAR NUCLEAR PLANT (WBN) UNIT 2 – RESPONSE TO  
REQUEST FOR ADDITIONAL INFORMATION ON SEVERE ACCIDENT  
MANAGEMENT DESIGN ALTERNATIVES (SAMDA) (TAC NO.  
MD8203)**

- References:
1. E-mail from Justin C. Poole, U.S. Nuclear Regulatory Commission, to William D. Crouch, TVA, dated June 21, 2011
  2. TVA letter to NRC dated June 17, 2011, "Watts Bar Nuclear Plant (WBN) - Unit 2 - Response to Request for Additional Information Regarding Severe Accident Management Alternative Review (TAC NO. MD8203)"

The purpose of this letter is to respond to a request for additional information (RAI) provided in Reference 1. TVA's June 17, 2011 letter (Reference 2) stated that the mission time for the Reactor Protection System (RPS), Engineered Safety Feature Actuation System (ESFAS), and instrumentation is 12 hours. The NRC questioned what instrumentation had the 12 hour mission time.

Subsequently, TVA verbally clarified and herein confirms that this reference to instrumentation was meant to refer to instruments associated with a reactor trip, but not specifically classified as RPS or ESFAS. The 12 hour mission time was not meant to encompass all plant instrumentation. Instrumentation necessary and sufficient to monitor safe shutdown is considered to have a mission time of 24 hours.

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There are no new commitments provided in this letter. If you have any questions, please contact Bill Crouch at (423) 365-2004.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 27<sup>th</sup> day of June, 2011.

Respectfully,

A handwritten signature in black ink, appearing to read 'D. Stinson', with a stylized flourish extending to the right.

David Stinson  
Watts Bar Unit 2 Vice President

cc: U. S. Nuclear Regulatory Commission  
Region II  
Marquis One Tower  
245 Peachtree Center Ave., NE Suite 1200  
Atlanta, Georgia 30303-1257

NRC Resident Inspector Unit 2  
Watts Bar Nuclear Plant  
1260 Nuclear Plant Road  
Spring City, Tennessee 37381