

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

March 17, 1982

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555



Dear Ms. Adensam:

In the Matter of the Application of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

Enclosed is a revised response to NRC question 212.119 in the Watts Bar Final Safety Analysis Report. This response provides additional information concerning the surveillance requirements in the High Flux Shutdown Alarm after a reactor trip. This additional information should resolve open item 76 of the draft Safety Evaluation Report.

If you have any questions concerning this matter, please get in touch with D. P. Ormsby at FTS 858-2682.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Sworn to and subscribed before me
this 17th day of March 1982

Bryant M. Lowrey
Notary Public

My Commission Expires 4/4/85

Enclosure

cc: U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

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212.119 Question

For a postulated boron dilution event while shutting down the plant, the applicant relies on an alarm from the source range neutron flux detector. We require that the applicant provide procedures specifying a resetting schedule for the alarm which will assure that the operator will be alerted with at least 15 minutes from time of alarm for response.

Response

Watts Bar Instrument Section will have a surveillance instruction (high flux adjustment after shutdown) that will require the high flux at shutdown alarm setting to be adjusted no higher than 1/2 decade above the count rate 30 minutes after plant shutdown. This procedure will be in place before fuel loading.

The alarm setpoint will be set or verified every 30 minutes for the first 2 hours following plant trip, every 2 hours for the next 6 hours, and once per shift thereafter until the flux level has stabilized.