

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

September 29, 1983

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

Dear Ms. Adensam:

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

By D. S. Kammer's letter to you dated July 27, 1983 TVA committed to provide the results of the preliminary lighting survey for the Watts Bar Nuclear Plant main control room. The subject information is enclosed.

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
L. M. Mills, Manager
Nuclear Licensing

Sworn to and subscribed before me
this 29th day of September 1983

Paulette H. White
Notary Public
My Commission Expires 9-5-84

Enclosure

cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
MCR PRELIMINARY LIGHTING SURVEY

Before the MCR luminous ceiling panels were replaced (for fire protection purposes), the lighting levels in the MCR were more than adequate to meet the design goals of NUREG-0700. After the ceiling panels were replaced, TVA performed a preliminary lighting survey. Illumination measurements were made for the normal, standby, and emergency lighting systems. The preliminary lighting data was recorded throughout the MCR at safety-related, nonsafety-related, and back row panels. The data was near or below the minimum values specified in NUREG-0700. This was due to the increased opacity of the new fireproof ceiling system, an abnormal amount of accumulated dust on the ceiling panels from ongoing construction, and installed fluorescent lamps of mixed tube types. A retesting of a selected area of the MCR with the ceiling panels cleaned and relamped light fixtures shows that the normal lighting levels will be increased above the levels specified in NUREG-0700. Therefore, TVA does not anticipate any problems in meeting the minimum illumination level for the lighting systems at safety-related panels. TVA will clean the remaining control room ceiling panels and relamp the light fixtures before fuel loading. Final lighting survey data will be taken and the results will be provided to NRC as a part of the final control room design review in accordance with our current commitment.