

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

April 28, 1983

WBRD-50-390/83-24  
WBRD-50-391/83-23

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

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - SPACING AND CLEARANCE IN HPFP  
SPRINKLER SYSTEMS IN AUXILIARY BUILDING - WBRD-50-390/83-24,  
WBRD-50-391/83-23- FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
L. Watson on March 31, 1983 in accordance with 10 CFR 50.55(e) as  
NCR W-110-P. Enclosed is our first interim report. We expect to  
submit our next report on or about June 24, 1983.

If you have any questions, please get in touch with R. H. Shell at  
FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*L. M. Mills*  
L. M. Mills, Manager  
Nuclear Licensing

Enclosure

cc: Mr. Richard C. DeYoung, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Records Center (Enclosure)  
Institute of Nuclear Power Operations  
1100 Circle 75 Parkway, Suite 1500  
Atlanta, Georgia 30339

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**ENCLOSURE**

**WATTS BAR NUCLEAR PLANT UNITS 1 AND 2  
SPACING AND CLEARANCE IN HPPF SPRINKLER SYSTEMS IN AUXILIARY BUILDING  
NCR W-110-P  
WBRD-50-390/83-24, WBRD-391/83-23  
10 CFR 50.55(e)  
FIRST INTERIM REPORT**

**Description of Deficiency**

Sprinkler systems located in the Auxiliary Building have not been installed in strict compliance with National Fire Protection Association (NFPA) Standard 13. TVA committed to compliance with this standard in a letter from J. E. Gilleland (TVA) to R. S. Boyd (NRC) dated April 18, 1977.

The identified code deficiencies include:

- Sprinkler heads located too close together.
- Sprinkler heads located too far below ceilings.
- Sprinkler heads installed upside down.
- Inspector test connections installed at wrong point in the sprinkler systems.
- Spray patterns obstructed by pipes, hangers, and conduits.

The sprinkler systems are part of the High Pressure Fire Protection (HPPF) System.

**Interim Progress**

TVA is evaluating the causes of the deficiencies and the corrective actions required. Additional information will be provided in our next submittal.