

Docket



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
August 12, 1993

Docket Nos. 50-390 and 50-391
License Nos. CPPR-91 and CPPR-92

Tennessee Valley Authority
ATTN: Dr. Mark O. Medford, Vice President
Technical Support
38 Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Dear Dr. Medford:

SUBJECT: MATERIAL TRACEABILITY AT WATTS BAR

The NRC has previously expressed concerns regarding the degree of material traceability that has been provided for safety related structures at the Watts Bar facility. The enclosure provides a brief chronology of pertinent meetings and correspondence related to this subject. By letter dated June 1, 1993, TVA responded to a February 26, 1993 NRC letter, and concluded that installed materials meet or exceed design requirements and that they will perform their intended safety functions. TVA also concluded that its Quality Assurance (QA) and material control programs provide reasonable assurance to demonstrate that material control has been achieved, as required by 10 CFR Part 50, Appendix B.

We have reviewed the information TVA provided during meetings and by submittals (see enclosure). The provisions for material control of Quality Level II structural steel material throughout the process from procurement, warehousing, fabrication, and installation has been described by TVA. This process included provisions to ensure that material requirements were defined by Nuclear Engineering organization and that the requisite material was correctly withdrawn from the warehouse storage and utilized in the fabrication of structural commodities.

In order to provide a higher level of confidence that the material control process was properly implemented, we acknowledge that TVA performed confirmatory testing of in-situ material by conducting hardness testing that verified material properties conformed with design requirements. Additional in-situ confirmatory testing was performed by the NRC, as documented in Inspection Report 50-390 and 50-391/93-34. This included a series of hardness tests on pipe supports, cable tray supports, instrument line supports, HVAC supports and other structural material. The NRC hardness testing also confirmed that the installed material met the required design requirements. In addition, chemical analysis was performed by the NRC on a number of components, the results of which generally compared favorably with the associated procurement documentation.

Some specific material control concerns were identified as part of the TVA employee concerns program. TVA has stated that the issues identified did not

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involve significant programmatic weaknesses and that measures were instituted to resolve these employee concerns issues.

In summary, the NRC has determined that sufficient information has been provided by TVA to ascertain that its material control program, specifically as related to the traceability of Quality Level II structural steel material provisions, meets the applicable provisions of 10 CFR Part 50 Appendix B, Criterion VIII, "Identification and Control of Materials, Parts, and Components," the implementing Regulatory Guide 1.28, "Quality Assurance Requirements (Design and Construction)," and ANSI N45.2.-1977, "Quality Assurance Requirements for Nuclear Facilities."

Should you have any questions regarding this matter, please contact Mr. Robert Gramm at 301-504-1010.

Sincerely,

Original signed by

Frederick J. Hebdon, Director
Project Directorate II-4
Division of Reactor Projects II-4
Office of Nuclear Reactor Regulation

Enclosure:
As Stated

cc w/enclosure:

See next page

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cc: Plant Service list

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BClayton <i>BC</i>	RGramm	GZech <i>GZ</i>	PTam <i>PT</i>	JCrljenjak <i>JC</i>	FHebdon
8/14/93	8/15/93	8/15/93	8/19/93	8/10/93	8/12/93

cc:

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ENCLOSURE

WATTS BAR MATERIAL CONTROLS MEETINGS AND CORRESPONDENCE

TVA Letter from S. White to H. Denton dated March 20, 1986

NRC Inspection Report Unresolved Item 50-390/92-21-01 and 50-391/92-21-01

TVA/NRC Management Meeting on January 5, 1993
(Meeting Summary by P. Tam, issued January 11, 1993)

NRC (E. W. Merschoff) Letter to TVA dated February 26, 1993

TVA/NRC Meeting on April 2, 1993
(Meeting summary by P. Tam, issued April 8, 1993)

TVA letter to NRC dated June 1, 1993

NRC Inspection Report 50-390 & 391/93-34