



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

July 1, 1994

Docket Nos. 50-259, 50-260,  
and 50-296

Mr. Oliver D. Kingsley, Jr.  
President, TVA Nuclear and  
Chief Nuclear Officer  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, Tennessee 37402-2801

Dear Mr. Kingsley:

SUBJECT: SAFETY EVALUATION AND REQUEST FOR ADDITIONAL INFORMATION REGARDING  
MEDIUM VOLTAGE CABLE BEND RADIUS ISSUES FOR THE BROWNS FERRY NUCLEAR  
PLANT UNITS 1, 2, AND 3 (TAC NOS. M86253, M86254, AND M86255)

By letter dated March 17, 1993, the Tennessee Valley Authority (TVA) submitted information describing changes to certain corrective actions associated with cable installation problems at the Browns Ferry Nuclear Plant (BFN) Units 1, 2, and 3. These corrective actions dealt with the bend radius for medium voltage cables. On August 23, 1993, the NRC staff requested additional information on this topic, which TVA provided on January 10, 1994.

As documented in the enclosed Safety Evaluation, the staff has reviewed this information and accepts the changes proposed by TVA, with the exception of TVA's proposed disposition for cable PP453-II. This cable had been scheduled for replacement, but has been reclassified as a non-safety-related cable. However, this cable does serve a function in the BFN 10 CFR 50 Appendix R fire protection program. Therefore, the staff requests the following information regarding this issue:

1. Provide justification for why the Appendix R function for cable PP453-II will be fulfilled, given the potentially degraded condition of this cable because of excessively tight bend radius.
2. Discuss the effect of cable installation deficiencies on other cables which are classified as non-safety-related, but are relied upon to fulfill regulatory requirements such as Appendix R, station blackout, or anticipated transients without scram. Note that this request is not limited to the bend radius issue. Provide a justification which demonstrates the fulfillment of regulatory requirements.

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Mr. Oliver D. Kingsley, Jr.

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TVA is requested to provide this information within 45 days of receipt of this letter.

Please contact me at (301) 504-1470 if you have any questions regarding this request. This request affects nine or fewer respondents, and therefore is not subject to Office of Management and Budget review under P.L. 56-911.

Sincerely,

Original signed by

Joseph F. Williams, Project Manager  
Project Directorate II-4  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

cc: See next page

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Docket File

NRC & Local PDRs

BFN Rdg. File

S. Varga 0-14-E-4

G. Lainas 0-14-H-3

F. Hebdon

B. Clayton

J. Williams

D. Trimble

OGC 0-15-B-18

ACRS (10)

E. Merschhoff RII

OFC	PDII-4/LA	PDII-4/PM	PDII-4/PM	EELB	PDII-4/PD
NAME	B. Clayton	J. Williams	D. Trimble	Berlinger	F. Hebdon
DATE	6/28/94	6/30/94	6/30/94	6/30/94	7/1/94

DOCUMENT NAME: CABLESER.LTR

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cc:

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## BROWNS FERRY NUCLEAR PLANT

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