

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

SEP 21 1988

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of)	Docket Nos. 50-259
Tennessee Valley Authority)	50-260
)	50-296

BROWNS FERRY NUCLEAR PLANT (BFN) - RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION . . . ELECTRIC CIRCUIT PROTECTION BY CURRENT LIMITING FUSES (TAC NO. 62260-C)

This letter provides TVA's response to NRC's August 10, 1988 request for additional information on the above subject. Included with this letter are the following documents for your review:

- BFN Fuse Substitution Program control document (BF6.12)
Design standard DS-E8.1.1 Appendix C
Design standard DS-E8.1.2 Appendix D
- Calculations,
(ED-Q0281-88139) 250V DC Reactor MOV Boards 2A, 2B, 2C
(ED-Q0268-88463) 480V Reactor MOV Boards 3A/B
- CAQR BFP 870175
- Sample fuse tabulation sheet
- Schematic drawings,
45N714-2 250 VDC Reactor MOV Board 1A
45N799-10 480 V Shutdown Aux. power

TVA was asked to provide the condition adverse to quality reports (CAQRs) written to document the inadequate fuses identified during the plant walkdowns. CAQR BFP 870175 was written to document the condition that the requirements of updated design standards were not reflected in the BFN fuse program.

To resolve this condition, BFN is generating calculations using updated design standards to specify the appropriate fuses for each application. In the conclusions and recommendations section of these calculations, a pass/fail status is given for each fuse. This status indicates that the fuse specified in the calculation is or is not the same fuse that was previously selected.

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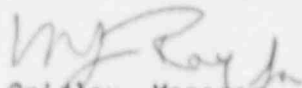
U. S. Nuclear Regulatory Commission

The criteria for sizing the fuses is found in section 2 of the calculations. A representative sample of schematic diagrams are provided with the calculations. These schematics are typical of the circuits evaluated.

Please refer any questions or comments concerning this submittal to Patrick Carier at (205) 729-2689.

Very truly yours,

TENNESSEE VALLEY AUTHORITY


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