

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

Mr. Hugh G. Parris
Manager of Power
Tennessee Valley Authority
500A Chestnut Street, Tower II
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AUG 30 1982

Dear Mr. Parris:

Subject: Browns Ferry, NUREG-0737, Item III.D.3.4 - Control Room
Habitability

Reference is made to your response of July 27, 1982 on the above subject, providing the additional information requested by our letter of February 12, 1982. We have completed our review of your submittals. As discussed in the enclosed safety evaluation, we have concluded that the Browns Ferry Nuclear Plant, Unit Nos. 1, 2 and 3, acceptably meets the requirements in NUREG-0737, Item III.D.3.4 on "Control Room Habitability."

Sincerely,

ORIGINAL SIGNED BY

Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

Enclosure
As stated

cc: w/enclosure
See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING

Resolution of NUREG-0737, Item III.D.3.4

"Control Room Habitability"

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3

DOCKET NOS. 50-259, 50-260 AND 50-296

1.0 Introduction:

In accordance with NUREG-0737 Task Action Plan Item III.D.3.4, "Control Room Habitability," licensees shall assure that control room operators will be adequately protected against the effects of accidental release of toxic and radioactive gases and that the nuclear power plant can be safely operated or shutdown under design basis accident conditions (Criterion 19, "Control Room," of Appendix A, "General Design Criteria for Nuclear Power Plants," to 10 CFR Part 50).

2.0 Evaluation

In response to the requirements of the Task Action Plan as promulgated in NUREG-0737, TVA submitted a response to Item III.D.3.4 dated March 17, 1981. To resolve one concern, we requested additional information on this subject from TVA in our letter of February 12, 1982. TVA responded to this request by letter dated July 27, 1982.

In accordance with the NUREG-0737 requirements, we evaluated the information provided by TVA against the guidance and requirements of Standard Review Plan Sections 2.2.1, 2.2.2, 2.2.3, and 6.4, and Regulatory Guides 1.78 and 1.95. In its submittals, TVA indicated that no modifications to the control room habitability system were necessary.

Based on our review, we find that the systems will provide safe, habitable conditions within the control room under both normal and accident radiation and toxic gas conditions, including loss-of-coolant accidents. We also conclude that occupancy can be maintained under accident conditions without personnel receiving radiation exposures in excess of 5 rem whole body, or its equivalent to any part of the body, for the duration of an accident.

Therefore, we conclude that the design meets the criteria identified in Item No. III.D.3.4, "Control Room Habitability" of NUREG-0737 and thus, acceptably resolves this issue for the Browns Ferry Nuclear Plant, Unit Nos. 1, 2 and 3.

Date: August 30, 1982

Authors: Dick Clark, Harry Krug