



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

ENCLOSURE

SAFETY EVALUATION REPORT BY THE OFFICE OF SPECIAL PROJECTS

RELATIVE TO STAFFING OF FIRE BRIGADE

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2 AND 3

DOCKET NUMBERS 50-259/260/296

1.0 INTRODUCTION

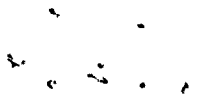
By letter dated April 29, 1988, the Tennessee Valley Authority (TVA or the licensee) submitted a description of the reorganized fire brigade at the Browns Ferry Nuclear Plant (BFN) Units 1, 2 and 3. This reorganization at BFN is part of an overall plan to upgrade the fire fighting capabilities at all TVA Nuclear plants with professional fire brigade personnel. TVA has named this reorganized unit, the Fire Emergency Response Organization.

2.0 EVALUATION

Browns Ferry Nuclear Plant, Units 1 and 2, are committed to meeting the corrective actions outlined in Reference 1. NRC approval of the original BFN fire brigade concept is addressed in Section 6.0, Administrative Changes, of Reference 2: This referenced Safety Evaluation Report (SER) describes the BFN fire brigade as consisting of at least five members with training on the use of water to extinguish electrical fires, use of self-contained breathing apparatus, smoke control and interface requirements with offsite fire companies. The staff's 1976 SER also states that the fire brigade participates in periodic drills.

The original fire brigade was staffed by the Assistant Shift Engineer as the fire brigade leader and four operations personnel. The reorganized fire brigade will be controlled by the Assistant Shift Operations Supervisor (formerly Assistant Shift Engineer). The Assistant Shift Operations Supervisor will serve as the Incident Commander and the brigade will be staffed by a brigade leader and four individuals from the offsite fire operations unit. The Incident Commander will respond to all plant fire emergencies and will provide the technical knowledge of safe shutdown systems to determine the effects of fire and fire suppressants on safety-related systems. The Incident Commander will also remain in direct communications with the Shift Operations Supervisor/Emergency Coordinator in order to provide any technical information that may be required for the plant operations staff to safely shutdown an operating reactor. Each duty shift of the Fire Emergency Response Group is staffed by a Fire Captain (brigade leader) who has professional fire service experience and four Fire Operators.

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The Fire Operators have met the minimum standards for certification as Fire-fighter II as defined by the National Fire Protection Association (NFPA), have had 80 hours of classroom instruction on site specific fire protection systems as well as on-the-job-training, emergency health physics training, and emergency medical training.

It is the licensee's position, and the staff agrees, that the reorganized fire brigade meets or exceeds the original fire brigade commitments and requirements. The licensee has provided a comparison of its fire brigade to the requirements of BTP CMEB 9.5-1 (Reference 3). The comparison shows that the reorganized Fire Operations Unit meets the intent of the requirements of CMEB 9.5-1 in Section C.3, Fire Brigade.

3.0 CONCLUSION

The staff concludes that the reorganized fire brigade unit (Fire Emergency Response Organization) meets the staff's guidance in References 2 through 4 in regard to the staffing, training and equipping of the plant fire brigade.

4.0 REFERENCES

- (1) TVA, April 13, 1975, "Plan for Evaluation, Repair, and Return to Service of Browns Ferry Units 1 & 2 (March 22, 1975 Fire)."
- (2) USNRC, March 1976, "Safety Evaluation Report related to Operation of Browns Ferry. Units 1 and 2 following the March 22, 1975 Fire" (NUREG-0061).
- (3) USNRC, July 1981, Standard Review Plan (NUREG-0800) Section 9.5-1 Fire Protection Program, Branch Technical Position CMEB 9.5-1, "Guidelines for Fire Protection for Nuclear Power Plants," Revision 2.
- (4) USNRC, August 23, 1976, BTP APCS 9.5-1 Appendix A, "Guidelines for Fire Protection for Nuclear Power Plants, Docketed Prior to July 1, 1976."

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