



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 90 TO FACILITY OPERATING LICENSE NO. NPF-29

ENERGY OPERATIONS, INC., ET AL.  
GRAND GULF NUCLEAR STATION, UNIT 1

DOCKET NO. 50-416

1.0 INTRODUCTION

By letter dated January 11, 1991, and supplements dated March 13 and October 9, 1991, the licensee (Energy Operations, Inc.) submitted a request for changes to the Grand Gulf Nuclear Station, Unit 1 (GGNS) Technical Specifications (TS). The requested changes would delete the DC battery load profiles from TS 4.8.2.1.d.2. The battery load profiles being removed are contained in the GGNS Updated Final Safety Analysis Report (UFSAR). The TS Bases are also modified to include a description of the simulated emergency load profiles and their definition in the UFSAR.

The March 13 and October 9, 1991, letters provided clarifying information that did not change the initial proposed no significant hazards consideration determination.

2.0 EVALUATION

Currently, TS 4.8.2.1.d requires that every 18 months the capacities of Division I, II, and III 125 Vdc batteries be verified to be adequate to supply and maintain operable all their actual emergency loads for specific durations when the batteries are subjected to battery service tests or alternately when supplying dummy loads with specified profiles while maintaining battery terminal voltage greater than or equal to 105 volts.

To eliminate the specified load profiles from the TS, the licensee proposed the following specific changes:

1. TS 4.8.2.1.d.2, which contains the specific load profiles and allows the alternate dummy load test instead of the service test utilizing actual emergency loads, is deleted in its entirety.
2. Under TS 4.8.2.1.d, delete "either."
3. Under TS 4.8.2.1.d.1, delete "1" and combine this paragraph with TS 4.8.2.1.d. Add "or simulated" between "actual" and "emergency" and delete "or" from the end of this paragraph.

4. On page B 3/4 8-2 under the Bases for electrical power systems, insert the following new paragraph after the second paragraph:

"The simulated emergency load profile used for the battery service test of Surveillance Requirement 4.8.2.1.d is verified to be at least equivalent to the actual emergency load profile and is based on anticipated operations required after an AC power loss during accident conditions as described in the Updated Final Safety Analysis Report (UFSAR). The simulated emergency load profile for the three divisional batteries is defined and located in the UFSAR Section 8.3."

Since the effect of the above proposed changes is to reference the UFSAR for load profiles used in technical specification battery tests, which is consistent with current staff policy, we find the changes acceptable on the condition that the licensee revises the UFSAR to include the minimum acceptable battery terminal voltage to be maintained during the service test, as committed to on page 1 of the attachment to the licensee's October 9, 1991, letter.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Mississippi State official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes in surveillance requirements. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (56 FR 49917). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

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