



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 48 TO FACILITY OPERATING LICENSE NO. NPF-29

MISSISSIPPI POWER & LIGHT COMPANY

SYSTEM ENERGY RESOURCES, INC.

SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

GRAND GULF NUCLEAR STATION, UNIT 1

DOCKET NO. 50-416

DESCRIPTION

A letter dated July 12, 1988, System Energy Resources, Inc. (the licensee), requested an amendment to Facility Operating License No. NPF-29 for the Grand Gulf Nuclear Station, Unit 1. The proposed amendment would delete a shower and drying area (Room OC506) from the Technical Specification (TS) Table 3.3.7.9.-1, "Fire Detection Instrumentation," because the control building locker room (Room OC514) will be enlarged by removing the walls separating the two rooms.

2.0 EVALUATION

The proposed change results from a design change to enlarge the locker room on the 166'-0" elevation of the control building. To accomplish the enlargement, several non-fire rated interior masonry walls are to be removed that will incorporate Rooms OC506 (Shower and Drying Area) and OC505 (Janitor Closet) into Room OC514 (Locker Room). The walls to be removed function only to divide up living space and serve no other purpose. Rooms OC506 and OC514 are currently listed in Zone 1-19 of Table 3.3.7.9-1. Room OC506 contains safety related electrical cable and raceway as described in the Fire Hazards Analysis and takes credit for the smoke detection instrumentation located in Room OC514. Room OC505 is not listed in the Technical Specifications because no safety related components or equipment are located in Room OC505. The licensee has stated that the design change has been reviewed and approved by a qualified fire protection engineer.

The locker room enlargement does not result in the removal or relocation of any fire detection instrumentation or any fire rated barriers. The smoke detection capability will not be reduced by the design change. Also, since the walls being removed are not fire related there will be no change in any existing fire rated barriers when Rooms OC506 and OC505 are incorporated into Room OC514. The room modifications do not affect any fire area boundaries.

Technical Specification 3.3.7.9 requires the fire detection instrumentation for Zone 1-19 to be operable. Table 3.3.7.9-1 lists the minimum number of fire detection instruments required to be operable in each detection zone. The design change will not add or delete any detection instruments to or from detection Zone 1-19. No detection instruments associated with Zone 1-19 will be relocated. The minimum number of instruments required to be operable in detection Zone 1-19 will not be affected and no building spaces previously provided with detection will have detection capability reduced. The incorporation of Room OC506 into Room OC514 necessitates the deletion of Room OC506 from Table 3.3.7.9-1. Therefore, the descriptive list of room in detection Zone 1-19 is being modified consistent with the new room designations.

The staff has reviewed the submittal and observed the rooms being modified. Removal of the walls between Room OC506, which contains safety-related electrical cable and raceways and Room OC514 where the smoke detection instrumentation is located will improve the capability for detecting fire in Room OC506 because of better air communication between the two areas when the wall is removed. Presently air communication is through an open doorway. Removal of the walls separating the small janitor closet Room OC505 from the other two rooms will not significantly affect fire detection capability. Accordingly the staff concludes that the change is acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment changes a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The 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 off site; and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration, and there has been no public comment on such finding. Accordingly, this 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 this amendment.

4.0 CONCLUSION

The Commission made a proposed determination that this amendment involves no significant hazards consideration, which was published in the Federal Register on August 10, 1988 (53 FR 30138), and consulted with the State of Mississippi. No public comments or requests for hearing were received, and the State of Mississippi did not have any comments.

The staff 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and the security, or to the health and safety of the public.

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Dated: September 23, 1988