



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

SAFETY EVALUATION REPORT

RELATED TO AMENDMENT NO. 37 TO FACILITY OPERATING LICENSE NPF-9

AND TO AMENDMENT NO. 18 TO FACILITY OPERATING LICENSE NPF-17

DUKE POWER COMPANY

INTRODUCTION

In a letter dated August 2, 1983, the Duke Power Company (licensee) requested a number of amendments to Appendix A of Operating Licenses NPF-9 and NPF-17. One proposed amendment would revise Technical Specification 3.5.1.2 to allow unit operation at less than or equal to 46% rated thermal power with the Upper Head Injection Accumulator System inoperable. The system performs no function during normal operation but serves to mitigate accidents after they occur.

EVALUATION

A limited spectrum of large and small breaks was analyzed at 46% power with an F_g of 4.64. This F_g is permissible in this power range. The 1981 model was used for large breaks and the corrected 1975 model was used for small breaks. UHI support columns and guide tubes were modeled as in previous UHI ECCS calculations. The cold leg accumulators were maintained at 400 psi to reflect that specification for UHI plants. We have reviewed these elements of this calculation and conclude that this is an appropriate methodology for analyzing ECCS performance under these conditions. The results of the analyses were within the performance limits of 10 CFR 50.46. We, therefore, conclude that LOCA analysis for this condition is acceptable. Analyses of other transients and accidents is not necessary, since all other transients and accidents would be bounded by previous analyses at zero power or full power.

ENVIRONMENTAL CONSIDERATION

We have determined that the amendments do not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendments involve an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

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CONCLUSION

Notice of opportunity for a prior hearing was published in the Federal Register on January 4, 1984 (49 FR 530). No requests for a hearing were received.

We have concluded, based on the consideration discussed above, that: (1) there 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 these amendments will not be inimical to the common defense and security or to the health and safety of the public.

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Dated: October 31, 1984