



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 87 TO FACILITY OPERATING LICENSE NO. DPR-38

AMENDMENT NO. 87 TO FACILITY OPERATING LICENSE NO. DPR-47

AMENDMENT NO. 84 TO FACILITY OPERATING LICENSE NO. DPR-55

DUKE POWER COMPANY

OCONEE NUCLEAR STATION, UNITS NOS. 1, 2, AND 3

DOCKETS NOS. 50-269, 50-270 AND 50-287

Introduction

By letter dated July 22, 1980, the Duke Power Company (the licensee) submitted proposed changes to the Station's common Technical Specifications (TSs) modifying the reactor vessel pressure-temperature operating limit curves for Oconee Units Nos. 2 and 3.

Background

The pressure-temperature operating limit curves for Units 2 and 3 were developed for the first 4 effective full power years (EFPY) from the first reactor vessel material surveillance capsules removed from the reactor vessels after about one year of operation. For Oconee Unit 2 the 4 EFPY curves will become invalid in early to mid-October 1980, necessitating the need for this amendment.

The licensee proposed extending the current operating limits to accommodate the predicted future effect one EFPY of operation would have on the fracture toughness of the reactor vessel. The licensee conservatively used the methodology of Regulatory Guide 1.99, Revision 1, to perform his evaluation.

Evaluation

The licensee has proposed that the current pressure-temperature limits for Units 1 and 2 be revised by increasing the allowable temperatures by 15° F to account for an increase in fluence corresponding to one EFPY. This would make the revised curves applicable for 5 EFPY instead of 4 EFPY.

We have evaluated the information submitted by the licensee and have concluded that his proposed revision will account for the increase in fluence that will result from an additional one EFPY of exposure, and that the revised curves will be in conformance with Appendix G, 10 CFR Part 50. Conformance with 10 CFR Part 50, Appendix G, constitutes an acceptable basis for satisfying the requirements of

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NRC General Design Criterion 31, Appendix A, 10 CFR Part 50, and thus the revised operating limits are acceptable.

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.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendments do not involve a significant increase in the probability or consequences of accidents previously considered and do not involve a significant decrease in a safety margin, the amendments do not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) 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.

Dated: October 7, 1980