



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 38

TO FACILITY OPERATING LICENSE NO. DPR-21

NORTHEAST NUCLEAR ENERGY COMPANY

MILLSTONE NUCLEAR POWER STATION, UNIT NO. 1

DOCKET NO. 50-245

INTRODUCTION

By letter dated August 8, 1989, Northeast Nuclear Energy Company (the licensee) submitted a request to amend the Millstone Nuclear Power Station, Unit No. 1 Technical Specifications (TS). The proposed change would add a new requirement on the ultimate heat sink for reactor and containment cooling systems by specifying an average water temperature of less than or equal to 75°F at the intake structure except when Millstone 1 is in cold shutdown or in the refueling condition.

EVALUATION

The ultimate heat sink (Long Island Sound) provides the cooling water necessary to ensure the cooling capacity to provide for the removal of the normal heat loads and the normal cooldown loads and to mitigate the effects of accidents within acceptable limits. By placing a limit on the maximum temperature of the ultimate heat sink for plant operation, the licensee will assure that sufficient heat removal capacity is available. The intake structure draws water from the ultimate heat sink for circulation by the service water and emergency service water systems. The Updated Final Safety Analysis Report states that the design temperature for these two water systems is 75°F. Therefore, by adding this new requirement to the TS, the licensee will ensure that the design basis for the ultimate heat sink is not violated. The staff finds the proposed change, an additional restriction not presently in the TS, to be acceptable.

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 and changes surveillance requirements. We have determined that the amendment involves no significant increase in the amounts, and no significant

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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 staff has previously published a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding. 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.

CONCLUSION

We have 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 (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.

Dated: November 7, 1989

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