



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 111 TO LICENSE NO. DPR-49

IOWA ELECTRIC LIGHT AND POWER COMPANY
CENTRAL IOWA POWER COOPERATIVE
CORN BELT POWER COOPERATIVE

DUANE ARNOLD ENERGY CENTER

DOCKET NO. 50-331

1.0 Introduction

As a result of a review of the engineering designs related to the Duane Arnold Energy Center (DAEC) the Iowa Electric Light and Power Company (the licensee) discovered a discrepancy in a pressure instrument setpoint for automatic bypass of turbine control valve fast closure scram and turbine stop valve closure scram. The instrument setpoint was set at a turbine first stage pressure corresponding to 30% of the "turbine power." The Final Safety Analyses Report (FSAR) evaluation which was reviewed and approved by the Commission, was based on the pressure instrument to be set at turbine pressure corresponding to 30% of the "core power." The use of 30% of the "turbine power" instead of 30% of the "core power" has resulted in a nonconservative setpoint. The licensee has, therefore, requested a change to the Technical Specifications to correct the value of the turbine first stage setpoint pressure to correspond to 30% of the "core power" as stated in the FSAR and evaluated by the staff.

2.0 Evaluation

The proposed change corrects an error in the instrument setpoint dealing with the scram signal bypass at a low reactor power. The staff has verified that the FSAR evaluation of the setpoint in question refers to a setting at 30% of the "core power." Since the FSAR was evaluated by the staff and the evaluation accepted prior to the issuance of the DAEC license, we find the proposed request to correct the erroneous setting to be acceptable.

3.0 Environmental Considerations

This amendment involves a change in 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 offsite, 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

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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

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 the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: M. Thadani

Dated: February 5, 1985

5.0 Reference

Duane Arnold Energy Center Procedures for Establishing Turbine Pressure, letter from General Electric Company to Iowa Electric Light and Power Company, dated August 10, 1984.