



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 205 TO FACILITY OPERATING LICENSE NO. DPR-49

IES UTILITIES INC.

CENTRAL IOWA POWER COOPERATIVE

CORN BELT POWER COOPERATIVE

DUANE ARNOLD ENERGY CENTER

DOCKET NO. 50-331

1.0 INTRODUCTION

By letter dated June 30, 1994, as supplemented November 10, 1994, IES Utilities Inc. requested changes to the Duane Arnold Energy Center (DAEC) Technical Specifications (TS). The proposed change will add Limiting Conditions for Operation (LCO), and Surveillance Requirements (SR) for the Control Building Chillers.

2.0 EVALUATION

The DAEC Control Building Chillers are installed to remove the design basis heat load under all normal and emergency conditions. The Control Building consists of the Control Room, Essential Switchgear Rooms, Battery Rooms, and the Cable Spreading Room. The Control Building is designed to be maintained within an allowable tolerance for temperature and humidity to assure long-term operation and habitability by operations personnel. The Chillers are essential to that purpose because they provide coolant to the heat exchangers, which remove heat from the areas in the Control Building.

The operability of the Control Building Chillers is currently controlled by an administrative LCO. The proposed amendment revises DAEC TS section 3.10 to add Operability Requirements, LCOs, and SRs for the Control Building Chillers. In addition, TS section 3.2 is revised to address Control Building Chiller Operability during Core Alterations. The revisions to the TS and its bases are appropriate because the revisions impose additional TS requirements for operability and testing of the Control Building Chillers, which are consistent with the design analysis for the plant. The staff agrees with DAEC's position that the Control Building Chillers should be controlled by TS because the Chillers are installed to remove the design basis heat load under all normal and emergency conditions. As such, these functions are required to be controlled by technical specifications under 10 CFR 50.36, and the specific requirements satisfy the criteria for the content of TS described in the Commission's final policy statement dated July 22, 1993 (58 FR 39132).

The proposed LCO and SR, combined with the DAEC heat exchanger testing program (as discussed in the licensee's letter dated November 10, 1994), will adequately demonstrate the capability of the system to perform the functions assumed in the design analysis. In addition, the form of the LCO and SR are consistent with the applicable standard TS for BWR/4 plants (NUREG-1433). Therefore, the staff concludes that the proposed addition of the Control Building Chillers to the TS is acceptable.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Iowa State official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATIONS

This amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluent 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 the amendment involves no significant hazards consideration and there has been no public comment on such finding (59 FR 39592). 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.

### 5.0 CONCLUSION

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, (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.

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Date: December 29, 1994