

Mr. Lee Liu
Chairman of the Board and
Chief Executive Officer
Iowa Electric Light and Power Company
Post Office Box 351
Cedar Rapids, Iowa 52406

JAN 09 1986

Dear Mr. Liu:

The Commission has issued the enclosed Amendment No. 129 to Facility Operating License No. DPR-49 for the Duane Arnold Energy Center. This is to your application dated November 30, 1976 and following discussions between the NRC staff and your staff.

This amendment revises the Technical Specifications to incorporate an action statement in Section 3.7.C, defining the actions which will be taken if the stated limiting conditions for operation cannot be met.

In your October 17, 1984 application, you also requested that an action statement be incorporated in Specification 3.5.H. Our review indicates that the proposed change is unclear regarding action to be taken if the emergency core cooling system piping cannot be filled with water within 1 hour after discovery of its unfilled status. Please revise and resubmit the change for Section 3.5.H clarifying the action statement.

A copy of the related Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's Biweekly Federal Register notice.

Sincerely,
Original signed by

Mohan C. Thadani, Project Manager
BWR Project Directorate #2
Division of BWR Licensing

Enclosures:

1. Amendment No. 129 to License No. DPR-49
2. Safety Evaluation

cc w/enclosures:
See next page

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Mr. Lee Liu
Iowa Electric Light and Power Company

Duane Arnold Energy Center

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

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

DOCKET NO. 50-331

DUANE ARNOLD ENERGY CENTER

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 129
License No. DPR-49

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Iowa Electric Light and Power Company, et al, dated October 17, 1984, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) of Facility Operating License No. DPR-49 is hereby amended to read as follows:

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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 129, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. The license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Daniel R. Muller, Director
BWR Project Directorate #2
Division of BWR Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: January 9, 1986

ATTACHMENT TO LICENSE AMENDMENT NO.

FACILITY OPERATING LICENSE NO. DPR-49

DOCKET NO. 50-331

Revise the Appendix A Technical Specifications by removing the current pages and inserting the revised pages listed below. The revised areas are identified by vertical lines.

LIST OF AFFECTED PAGES

3.7-18

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
<p>2. If Specification 3.7.C.1 cannot be met:</p> <ul style="list-style-type: none"> a. Suspend reactor building fuel cask and irradiated fuel movement, and b. Restore secondary containment integrity within one hour; or, c. Be in COLD SHUTDOWN within the following 24 hours. 	<p>maintain the remainder of the secondary containment at 1/4 inch of water negative pressure under calm wind conditions.</p>
<p>D. <u>Primary Containment Power Operated Isolation Valves</u></p> <p>1. During reactor power operating conditions, all isolation valves listed in Table 3.7-3 and all instrument line flow check valves shall be OPERABLE except as specified in 3.7.D.2.</p>	<p>D. <u>Primary Containment Power Operated Isolation Valves</u></p> <p>1. The primary containment isolation valves surveillance shall be performed as follows:</p> <ul style="list-style-type: none"> a. At least once per operating cycle the OPERABLE isolation valves that are power operated and automatically initiated shall be tested for simulated automatic initiation and closure times. b. At least once per quarter: <ul style="list-style-type: none"> 1) All normally open power operated isolation valves (except for those exempted as noted in Table 3.7-3) shall be fully closed and reopened. 2) With the reactor power less than 75%, trip main steam isolation valves individually and verify closure time. c. At least once per week the main steam line power-operated isolation valves shall be exercised



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 129 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

By letter dated October 17, 1984, Iowa Electric Light and Power Company (the licensee) requested to amend Facility Operating License No. DPR-49 for the Duane Arnold Energy Center (DAEC) to add action statements to Technical Specification (TS) Limiting Condition for Operations (LCOs) 3.5.H, Maintenance of Filled Discharge Pipe and 3.7.C, Secondary Containment (presently the DAEC TSs do not contain any guidance on actions to be taken by the licensee if the LCOs cannot be met). The action statements are proposed to give action guidance in the event the LCOs cannot be met. Limiting Condition for Operation 3.5.H concerns maintaining the discharge piping full of fluid between the fluid source and the last block valve in the HPCI and RCIC Systems and the Core Spray and LPCI Subsystems; LCO 3.7.C specifies when Secondary Containment integrity is required.

2.0 EVALUATION

The DAEC TS 3.5.H presently requires that the discharge piping of the HPCI, RCIC, LPCI, and Core Sprays be maintained filled with fluid to the last block valve when operability of these systems or subsystems is required. Maintaining the lines filled prevents water hammer and possible system damage, when the systems are started to provide their designed safety function.

The filled status of the core spray and LPCI lines is monitored by continuously measuring the static pressure in the filled lines and annunciation occurs if the pressure decreases below a set limit. The HPCI and RCIC systems are normally aligned to the Condensate Storage Tank (CST) and in this alignment the piping is maintained full. If these systems are aligned to the torus, present surveillance requirements include monthly high point venting checks.

The licensee proposes to add Action Statement 3.5.H.1.a which specifies, when these systems are required to be operable, that the lines be returned to the filled condition within 1 hour to maintain the affected system operable.

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However, the licensee does not explicitly state what action it plans to take if the lines can not be returned to filled condition within 1 hour. Therefore, the proposed action statement to Technical Specification 3.5.H is incomplete and unacceptable. The licensee should revise the action statement to succinctly state the course of action it plans to take if the lines can not be restored to filled condition.

The TS 3.7.C specifies Secondary Containment Integrity requirements, but does not presently have an action statement to provide guidance when the LCO requirements are not met. The licensee proposes adding action statement 3.7.C.2 which requires suspension of all movements of irradiated fuel, restoration of Secondary Containment in 1 hour, or be in a cold shutdown condition within 24 hours.

The staff has reviewed this action statement and finds that the inclusion of the proposed guidance statement will assure that the licensee will restore the Secondary Containment integrity in 1 hour and reestablish a safe disposition of the plant or be shut down. The proposed TS change is, therefore, 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 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: K. Ridgway

Dated: January 9, 1986