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. 187
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 February 18, 1992, 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:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 187 , 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 and shall be implemented within 30 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Clyde Y. Shiraki, Sr. Project Manager
Project Directorate I 3
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of issuance: August 25, 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 187

FACILITY OPERATING LICENSE NO. DPR-49

DOCKET NO. 50-331

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised areas are indicated by marginal lines.

Remove	Insert
3.2-13	3.2-13
3.2-40	3.2-40

TABLE 3.2-B (Continued)

INSTRUMENTATION THAT INITIATES OR CONTROLS THE CORE AND CONTAINMENT COOLING SYSTEMS

Minimum No. of Operable Instrument Channels Per Trip System (1)	Trip Function	Trip Level Setting	Number of Instrument Channels Provided by Design	Remarks
2	Suppression Chamber HPCI Suction Level	≤ 5" above normal water level	2 Instrument Channels	Transfers HPCI pump suction to suppression chamber
1	RCIC Turbine High Flow	≤ 155 Inches H_2O (2)	2 Instrument Channels	
2	RCIC Turbine Equipment Room High Ambient Temperature	≤ 175°F (2)	4 Instrument Channels	
2	RCIC Vent High Differential Temperature	≤ Δ 50°F (2)	4 Instrument Channels	
2	RCIC Steam Line Low Pressure	100 > P > 50 psig (2)	4 Instrument Channels	
1	HPCI Turbine Steam Line High Flow	≤ 103 Inches H_2O (3) (Outboard Instr.) ≤ 386 Inches H_2O (3) (Inboard Instr.)	2 Instrument Channels	
2	Suppression Pool Area High Ambient Temperature	150°F	4 Instrument Channels	
2	Suppression Pool Area High Differential Temperature	50°F	4 Instrument Channels	
1	HPCI Leak Detection Time Delay	15 min.	2 Instrument Channels	

The HPCI high flow and temperature instrumention are provided to detect a break in the HPCI steam piping. Tripping of this instrumentation results in actuation of HPCI isolation valves. Tripping logic for the high flow is a 1 out of 2 logic.

Temperature is monitored at two (2) locations with four (4) temperature sensors at each location. Two (2) sensors at each location are powered by "A" direct current control bus and two (2) by "B" direct current control bus. Each pair of sensors, e.g., "A" or "B", at each location are physically separated and the tripping of either "A" or "B" bus sensor will actuate HPCI isolation valves.

The trip settings of 103 inches H_2O (outboard instrument) and 386 inches H_2O (inboard instrument) which correspond to 300% of design flow for high flow and 175°F and Δ45° for high temperature are such that core uncovery is prevented and fission product release is within limits.

The RCIC high flow and temperature instrumentation are arranged the same as that for the HPCI. The trip setting of 155 inches H_2O for high flow and 175° and Δ45° for temperature are based on the same criteria as the HPCI.