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 ROOT, L.D. Iowa Electric Light & Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Application for amend to License DPR-49, changing Tech Specs to including MAPLHGR operating limits to two new bundle types.

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Iowa Electric Light and Power Company

January 14, 1983

NG-83-0100

LARRY D. ROOT
ASSISTANT VICE PRESIDENT
NUCLEAR GENERATION

Mr. Harold Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Denton:

Transmitted herewith, in accordance with the requirements of 10CFR50.59 and 10CFR50.90, is an application for amendment to Appendix A (Technical Specifications) to Operating License DPR-49 for the Duane Arnold Energy Center.

This application, proposed change RTS-147, has been reviewed and approved by the DAEC Operations Committee and the DAEC Safety Committee. This is a Class III Amendment and a check for \$4000 is enclosed.

Three signed and 37 additional copies of this application are transmitted. This application, consisting of the foregoing letter and enclosures, is true and accurate to the best of my knowledge and belief.

IOWA ELECTRIC LIGHT AND POWER COMPANY

BY

Larry D. Root
Larry D. Root

Subscribed and sworn to Before Me on
this 14th day of January, 1983.

Suzanne M. Kerber
Notary Public in and for the State of Iowa

cc: R. Browning
D. Arnold
L. Liu
S. Tuthill
F. Apicella
NRC Resident Office

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PROPOSED CHANGE RTS-147 TO
THE DUANE ARNOLD ENERGY CENTER
TECHNICAL SPECIFICATIONS

The holders of license DPR-49 for the Duane Arnold Energy Center propose to amend Appendix A (Technical Specifications) to said license by deleting current pages and replacing them with the attached, new pages. A list of the affected pages is given below.

As new bundle types are added to the reactor core, the design basis Loss-of-Coolant Accident must be re-analyzed and the Technical Specifications updated to include the operating limits of these new bundle types. As part of the reload for Cycle 7, GE has reanalyzed the design basis event for the two new bundle types (P8DRB299 & P8DRB284H) being added to the core. The results of this analysis are reported in the attached amendment to the current LOCA documents. This change to the Technical Specifications is to add the MAPLHGR (Maximum Axial Planar Linear Heat Generation Rate) operating limits based on this analysis for the new bundle types.

Also as part of the reload licensing process for Cycle 7, GE has reanalyzed the most limiting abnormal operating transients as specified in Table 15.0-1 in the updated FSAR. The results of this analysis are reported in the attached supplement to the Reload Licensing submittal. This change to the Technical Specifications is to revise the MCPR (Minimum Critical Power Ratio) operating limits based on this analysis for both 8x8 and P8x8R fuel types.

The changes being made are as follows:

- 1) Change the List of Figures on page vii to delete MAPLHGR curves for 7x7 array fuel and to add the new MAPLHGR curves for the new P8x8R fuel.
- 2) Add definitions of Total Peaking Factor (TPF) and Maximum Total Peaking Factor (MTPF) to page 1.0-5.
- 3) Delete reference to 7 x 7 array fuel on page 1.1-2.
- 4) Change the text of Core Spray and LPCI Bases on page 3.5-14 to eliminate reference to the AEC's Interim Acceptance Criteria for Emergency Core Cooling and replace it with 10CFR50.46 criteria. Maximum clad temperature is changed to 2200°F to conform to 10CFR50.46. The GE Topical Report NEDO-10329 is changed to NEDO-20566.
- 5) List of references on page 3.5-26 is revised to conform to changes in 4) above.
- 6) Change the text of Section 3.12.A on page 3.12-1 to reflect deletion of 7x7 array MAPLHGR curves and the addition of new 8x8 array curves.

- 7) Delete Section 3.12.B.1 on page 3.12-2 and renumber B.2 as B.1. Old 3.12.B.1 refers to 7x7 array fuel.
- 8) Change the basis for Section 3.12.A on page 3.12-4 to reflect that the loss-of-coolant accident limits are specified in Section 10CFR50.46, not Appendix K as stated.
- 9) Add the words: "Maximum Total Peaking Factor" in front of MTPF on page 3.12-5.
- 10) Change page 3.12-9a to delete MCPR limits for 7x7 array fuel and revise the current limits for 8x8 and P8x8R fuels.
- 11) Update the references to the Loss-of-Coolant Accident Analysis Report for the DAEC, NEDO-21082-02-1A, to reflect the latest revision.
- 12) Delete MAPHGR curves on pages 3.12-13, -14, and -15 and add new MAPLHGR curves on pages 3.12-19 and -20.
- 13) Change the reference on page 3.12-5a to be consistent with the references on page 3.12-11.

List of Pages Affected

vii	3.12-5
1.0-5	3.12-5a
1.1-2	3.12-9a
3.5-14	3.12-11
3.5-26	3.12-13
3.12-1	3.12-14
3.12-2	3.12-15
3.12-4	3.12-19*
	3.12-20*

*new pages