July 1, 1985

Docket No. 50-331

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

DISTRIBUTION Docket File NRC PDR Local PDR ORB#2 Rdg HThompson ORAB SNorris MThadani **OELD** ELJordan BGrimes JPart1ow TBarnhart (4) ACRS (10) OPA. CMiles SECY RFerguson RDiggs Extra - 5 Gray File TWambach LRubenstein

~ ~ /

2.1.1.1

Dear Mr. Liu:

SUBJECT: EXEMPTION REQUESTS - 10 CFR 50.48 FIRE PROTECTION AND APPENDIX R TO 10 CFR PART 50

Re: Duane Arnold Energy Center

The Commission has issued the enclosed Exemption (Enclosure 1) from certain requirements of Section 50.48 and Section III J of Appendix R to 10 CFR Part 50 for the Duane Arnold Energy Center. This action is in response to your request submitted by letter dated January 2, 1985.

A copy of the Exemption is being filed with the Office of the Federal Register for publication.

The bases of our findings are stated in the enclosed Safety Evaluation (Enclosure 2).

Sincerely,

Original signed by/

Domenic B. Vassállo, Chief Operating Reactors Branch #2 Division of Licensing

Enclosures: As stated

cc w/enclosures: See next page

*Please see previous concurrence page.				J'VW	odian
DL:ORB#2 SNorris:ajs 06/10/85	DL:ORB#2 MThadani* 05/08/85	DL:ORB#2 DVassallo* 05/17/85	OELD WShields* 05/21/85	DL:ORB#5 TWambach 06/12/85	DSI:A D-C PS LRubenstein 06/ 13 /85
DL: (AD-OR GLaithas 0647/85				1 1	

Mr. Lee Liu Iowa Electric Light and Power Company Duane Arnold Energy Center

cc:

C

Jack Newman, Esquire Harold F. Reis, Esquire Newman and Holtzinger 1615 L Street, N. W. Washington, D. C. 20036

Office for Planning and Programming 523 East 12th Street Des Moines, Iowa 50319

Chairman, Linn County Board of Supervisors Cedar Rapids, Iowa 52406

Iowa Electric Light and Power Company ATTN: D. L. Mineck Post Office Box 351 Cedar Rapids, Iowa 52406

U. S. Nuclear Regulatory Commission Resident Inspector's Office Rural Route #1 Palo, Iowa 52324

James G. Keppler Regional Radiation Representative Region III Office U. S. Nuclear Regulatory Commission 799 Roosevelt Road Glen Ellyn, Illinois 60137 Mr. Thomas Houvenagle Regulatory Engineer Iowa Commerce Commission Lucas State Office Building Des Moines, Iowa 50319

7590-01

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

In the Matter of

IOWA ELECTRIC LIGHT AND

Docket No. 50-331

(Duane Arnold Energy Center)

POWER COMPANY, CENTRAL IOWA POWER COOPERATIVE, AND CORN BELT POWER COOPERATIVE

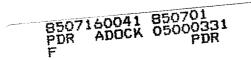
EXEMPTION

I.

Iowa Electric Light and Power Company, et al. (the licensee) is the holder of Facility Operating License No. DPR-49 which authorizes the operation of the Duane Arnold Energy Center at steady state reactor power levels not in excess of 1658 megawatts thermal. The facility consists of a boiling water reactor located at the licensee's site near Palo in Linn County, Iowa. The license provides, among other things, that it is subject to all rules, regulations and Orders of the Commission now or hereafter in effect.

II.

Section 50.48 of 10 CFR Part 50 requires that licensed operating reactors be subject to the requirements of Appendix R of 10 CFR Part 50. Appendix R contains the general and some of the specific requirements for fire protection programs at licensed nuclear facilities. On February 17, 1981, the fire protection rule for nuclear power plants, 10 CFR 50.48 and Appendix R, became effective. Section III.J of Appendix R of the rule



requires that emergency lighting units with at least an 8-hour battery power supply shall be provided for all areas needed for operation of safe shutdown equipment. The objective of this requirement is that in the event of a fire, adequate lighting will be available to assure that the plant can be safely shutdown. As a result of its internal review, the licensee found that it could not assure that a battery power source for the control room lighting would be available for more than 90 minutes. The licensee has therefore requested an exemption from the literal requirements of Section III.J, and wishes to use 90-minute batteries backed by Division I and Division II diesels in lieu of the 8-hour battery requirements of Section III.J for the control room. The diesel generators will power the emergency lighting after the battery power is exhausted. Half the essential lighting in the control room will be powered by the Division I diesel generator and lighting distribution system and half by Division II. There is no single fire outside the control room that can disable both Division I and Division II lighting in the control room.

Based on its review of the above information, the staff has concluded that, in the event of a fire, the 90-minute batteries will provide sufficient illumination in the control room to enable the operators to shut the plant down. Beyond the 90 minutes, either or both the Division I and Division II diesel generators will continue to power sufficient control room lighting for more than 8 hours. The underlying purpose of Section III.J will, therefore, be served by operating in the proposed manner. Therefore, the exemption request to Section III.J of Appendix R should be granted.

- 2 -

III.

Accordingly, the Commission has determined that, pursuant to 10 CFR 50.12, an exemption is authorized by law and will not endanger life or property or the common defense and security and is otherwise in the public interest.

Therefore, the Commission hereby approves (to the extent indicated) the following exemption:

Exemption is granted from the requirements of Section III.J of Appendix R to 10 CFR 50 pertaining to the need for providing emergency lighting with at least an 8-hour battery power supply for powering control room essential lighting.

The proposed use of emergency diesel-backed power sources in lieu of an 8-hour battery power supply, as cited in Section II above, is acceptable.

Pursuant to 10 CFR 51.32, the Commission has determined that the issuance of this Exemption will have no significant impact on the environment (50 FR

A copy of the Safety Evaluation associated with this action is available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the local public document room located at the Cedar Rapids Public Library, 500 First Street, S. E., Cedar Rapids, Iowa 52401. A copy may be obtained upon request when addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

- 3 -

The Exemption is effective upon issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Hugh L. Thompson, Jr., Director Division of Licensing Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland this lst day of July, 1985.

3