

September 4, 1986

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

Dear Mr. Liu:

The Commission has issued the enclosed Amendment No. 136 to Facility Operating License No. DPR-49 for the Duane Arnold Energy Center. This amendment consists of changes to the Technical Specifications in response to your application dated September 24, 1985 as clarified by your letter dated June 26, 1986.

The amendment revises the Technical Specifications to incorporate plant staffing changes and some administrative changes.

A copy of the related Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,

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

Enclosures:

1. Amendment No. 136 to License No. DPR-49
2. Safety Evaluation

cc w/enclosures:
See next page

DISTRIBUTION

Docket File	SNorris	BGrimes	OPA
NRC PDR	MThadani	TBarnhart (4)	LFMB
Local PDR	OGC	WJones	Gray File
NThompson	LJHarmon	DVassallo	EButcher
JPartlow	ELJordan	ACRS (10)	

~~*Please see previous concurrence page~~

DBL:PD#2	DBL:PD#2	OGC* <i>no legal objection</i>	DBL:PD#2:D
SNorris:rs*	MThadani*	A Hodgson	DMuller
8/8/86	8/15/86	8/21/86	9/2/86

* Previously concurred

Mr. Lee Liu
Iowa Electric Light and Power Company

Duane Arnold Energy Center

cc:
Jack Newman, Esquire
Kathleen H. Shea, 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

Regional Administrator, Region III
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



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. 136
License No. DPR-49

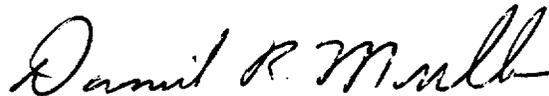
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Iowa Electric Light and Power Company, et al, dated September 24, 1985, as clarified by letter dated June 26, 1986, complies with the standards and requirements of the Atomic Energy Act of 1954, 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 Appendices A and B, as revised through Amendment No. 136, 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 from 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:

ATTACHMENT TO LICENSE AMENDMENT NO. 136

FACILITY OPERATING LICENSE NO. DPR-49

DOCKET NO. 50-331

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

Pages

6.1-1

6.2-1

6.2-3

6.2-4

6.5-1

6.5-3

6.5-4

6.6-1

6.7-1

6.0 ADMINISTRATIVE CONTROLS

6.1 MANAGEMENT - AUTHORITY AND RESPONSIBILITY

- 6.1.1 The Plant Superintendent-Nuclear has primary responsibility for the safe operation of the DAEC, and reports to the Manager-Nuclear Division.
- 6.1.2 The overall responsibility for the fire protection program for DAEC is assigned to the Manager-Nuclear Division. The DAEC Plant Superintendent-Nuclear is responsible for directing the operating plant fire protection program.
- 6.1.3 The Quality Control Supervisor is responsible for implementation of the Quality Assurance Program at the DAEC and reports to the Manager-Corporate Quality Assurance.

6.2 PLANT STAFF ORGANIZATION

6.2.1 The plant staff organization shall conform to that shown in Figure 6.2-1.

6.2.2 The following manning requirements shall be met:

1. All CORE ALTERATIONS shall be directly supervised by either a Senior Reactor Operator or Senior Reactor Operator Limited to Fuel Handling who has no other concurrent responsibilities during this operation.
2. At all times when there is fuel in the reactor:
 - a. A senior reactor operator shall be on the plant site.
 - b. A reactor operator shall be in the control room.
 - c. Two reactor operators shall be in the control room during startup, scheduled shutdown, and during recovery from trips caused by transients or emergencies.
 - d. Minimum operating shift crew compositions shall conform to those shown in Table 6.2-1.

TABLE 6.2-1

MINIMUM SHIFT CREW PERSONNEL AND LICENSE REQUIREMENTS

<u>DAEC Job Title</u>	<u>Reactor Mode</u>	
	<u>Other Than Cold Shutdown</u>	<u>Cold Shutdown</u>
"A" Operations Shift Supervisor	1 - SRO(1)	
"B" Operations Shift Supervisor	1 - SRO(1)(2)	1 - SRO(1)
Nuclear Station Operating Engineer	1 - RO	1 - RO
Assistant Nuclear Station Operating Engineer	1 - RO	
Second Assistant Nuclear Station Operating Engineer	1	1
Nuclear Station Auxiliaries Engineer	1	
Shift Technical Advisor	<u>1(2)</u>	<u>None Required</u>
Minimum Total Personnel	<u><u>7</u></u>	<u><u>3</u></u>

DAEC-1

SRO - Senior Reactor Operator

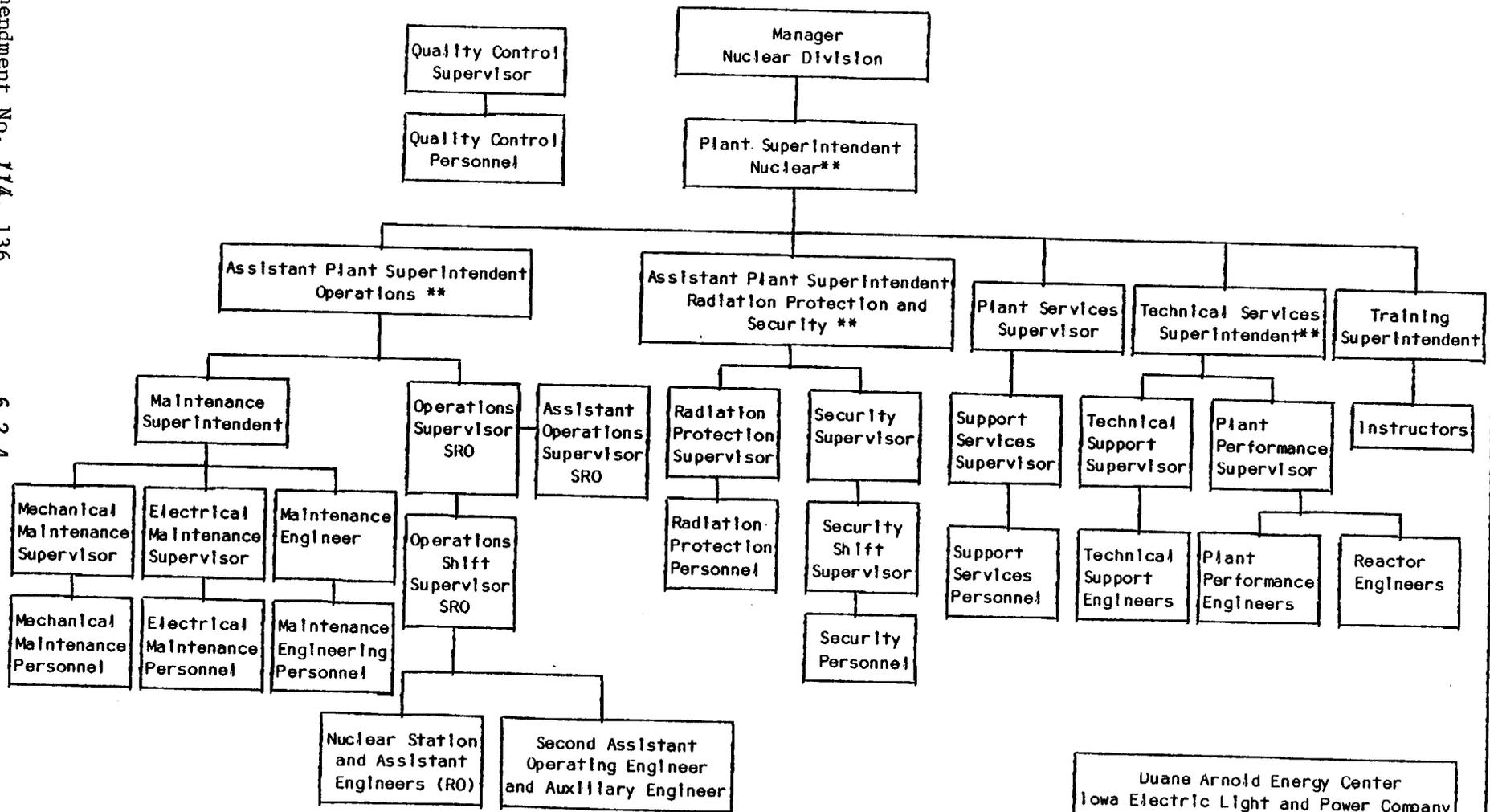
RO - Reactor Operator

Substitutions - without changing minimum total personnel requirements:

- a. Individuals with senior reactor operator license may substitute for reactor operator or nonlicensed position.
- b. Individuals with reactor operator license may, if otherwise qualified, substitute for nonlicensed position.

NOTES

- (1) Does not include the SRO or SRO Limited to Fuel Handling, Supervising Core Alterations.
- (2) Not required while in the Refuel Mode.



SRO - Senior Reactor Operator

RO - Reactor Operator

** - According to ANSI N18.1-1971, either the Plant Superintendent or one of his designated principal alternates shall have the experience and training normally required for a Senior Reactor Operator's license examination. (At least one of the people in the positions noted above shall meet that requirement.)

Duane Arnold Energy Center
Iowa Electric Light and Power Company
Technical Specifications

DAEC Nuclear Plant Staffing
Figure 6.2-1

6.5 REVIEW AND AUDIT

6.5.1 Operations Committee

6.5.1.1 Function

The Operations Committee shall function to advise the Plant Superintendent - Nuclear on all matters related to nuclear safety.

6.5.1.2 Composition

The Operations Committee shall be composed of selected Assistant Plant Superintendents, Superintendents, Supervisors and personnel from the following departments: Operations, Maintenance, Plant Performance, Radiation Protection, Quality Control, and Technical Support.

The Assistant Plant Superintendent - Operations shall act as the Chairman. One or more of the members shall be designated as Vice Chairman.

6.5.1.3 Alternates

All alternate members shall be appointed in writing by the Plant Superintendent-Nuclear to serve on a permanent basis; however, no more than three alternates shall participate as voting members in Operations Committee activities at any one time.

- e. Investigation of all violations of the Technical Specifications including the preparation and forwarding of reports covering evaluation and recommendations to prevent recurrence to the Manager-Nuclear Division and to the Chairman of the Safety Committee.
- f. Review of all Reportable Events.
- g. Review of facility operations to detect potential safety hazards.
- h. Performance of special reviews, investigations or analyses and reports thereon as requested by the Chairman of the Safety Committee.
- i. Review of the Plant Security Plan and implementing procedures.
- j. Review of the Emergency Plan and implementing procedures.
- k. Review of every unplanned release of radioactivity to the environs for which a report to the NRC is required.
- l. Review of changes to the Offsite Dose Assessment Manual and changes to the Process Control Program.

6.5.1.7 Authority

The Operations Committee shall:

- a. Recommend to the Plant Superintendent-Nuclear written approval or disapproval of items considered under Specification 6.5.1.6 (a) through (d) above.

- b. Render determinations in writing with regard to whether or not each item considered under 6.5.1.6 (a) through (e) above constitutes an unreviewed safety question.
- | c. Provide written notification within 24 hours to the Manager-Nuclear Division and the Safety Committee of disagreement between the Operations Committee and the Plant Superintendent-Nuclear; however, the Plant Superintendent-Nuclear shall have responsibility for resolution of such disagreements pursuant to Specification 6.1.1 above.

6.5.1.8 Record

| The Operations Committee shall maintain written minutes of each meeting and copies shall be provided to the Manager-Nuclear Division and the Chairman of the Safety Committee.

6.5.2 Safety Committee

6.5.2.1 Function

The Safety Committee shall function to provide independent review and audit of designated activities in the areas of:

- a. Nuclear power plant operations.
- b. Nuclear Engineering.

6.6 REPORTABLE EVENT ACTION

- 6.6.1 The following actions shall be taken for REPORTABLE EVENTS.
- a. Each REPORTABLE EVENT shall be reviewed by the Operations Committee, and a report shall be submitted to the Safety Committee and the Manager-Nuclear Division and
 - b. The Commission shall be notified and a report submitted pursuant to the requirements of Section 50.73 to 10 CFR Part 50.

6.7 ACTION TO BE TAKEN IF A SAFETY LIMIT IS EXCEEDED

- 6.7.1 If a safety limit is exceeded, the reactor shall be shut down and reactor operation shall only be resumed when authorized by the NRC.
- 6.7.2 An immediate report shall be made to the Manager-Nuclear Division and the Safety Committee. The Manager-Nuclear Division shall promptly report the circumstances to the NRC as specified in Subsection 6.11, Plant Reporting Requirements.
- 6.7.3 A complete analysis of the circumstances leading up to and resulting from the situation together with recommendations to prevent a recurrence shall be prepared by the Operations Committee. This report shall be submitted to the Manager-Nuclear Division and to the Safety Committee. Appropriate analyses or reports will be submitted to the NRC by the Manager-Nuclear Division as specified in Subsection 6.11, Plant Reporting Requirements.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO136TO FACILITY OPERATING 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 September 24, 1985 the Iowa Electric Light and Power Company (the licensee) requested an amendment to its Operating License No. DPR-49 for the Duane Arnold Energy Center (DAEC). The amendment was submitted as proposed changes to the Administrative Controls Section of the Technical Specifications (TS). The amendment was further clarified in a letter dated June 26, 1986. Specifically, the proposed changes requested by the licensee consist of: (1) a rearrangement of the DAEC plant staffing; (2) a change to the supervisory relationship between the DAEC site management and the off-site Nuclear Generation management and (3) several minor administrative changes.

2.0 EVALUATION

The proposed changes, as shown on the organization chart in Figure 6.2-1, concern two main areas. One change rearranges a portion of the DAEC plant staffing. The other change involves a change to the supervisory relationship between the site management and the off-site Nuclear Generation management.

The position of Assistant Plant Superintendent-Technical Support will be eliminated and separated into two positions--the Plant Services Supervisor and the Technical Services Superintendent. The Support Services Supervisor and the support services personnel will now come under the direction of the Plant Services Supervisor. The Technical Support Supervisor, the Plant Performance Supervisor and their engineers will be under the direction of the Technical Services Superintendent, who will report directly to the Plant Superintendent, Nuclear. This separation of supervision into the areas of Plant Services and Technical Services should enhance overall management control and should improve the effectiveness of the plant staffing.

The other proposed change to the organization chart, Figure 6.2-2 on page 6.2-4, will have the Plant Superintendent, Nuclear reporting directly to the Manager, Nuclear Division rather than to the Director, Nuclear Generation, who reported to the Manager, Nuclear Division. The position of Director, Nuclear Generation will be eliminated. The staff finds that the change will provide a direct communication link between the Manager, Nuclear Division and the Plant Superintendent, Nuclear.

The above cited proposed changes to the organization chart (Figure 6.2-1, on page 6.2-4) would also affect the following pages of the TS: 6.1-1, 6.2-1, 6.2-3, 6.2-4, 6.5-1, 6.5-3, 6.5-4, 6.6-1, and 6.7-1. In addition, for administrative purposes, changes in acronyms from SLO and LO to SRO and RO have been made. The following list outlines the changes by page number that makes the information consistent with the organizational chart:

- (1) On page 6.1-1, item 6.1.1 is changed to show that the Plant Superintendent, Nuclear will now report to the Manager, Nuclear Division instead of the Director, Nuclear Generation.
- (2) On page 6.1-1, item 6.1.2 is changed to show that the overall responsibility for the DAEC fire protection program is now assigned to the Manager, Nuclear Division instead of the Director, Nuclear Generation.
- (3) On page 6.2-1 and 6.2-3, SLO and Senior Licensed Operator are replaced with SRO and Senior Reactor Operator wherever they appear. LO and Licensed Operator are replaced with RO and Reactor Operator.
- (4) On page 6.2-4, the DAEC Nuclear Plant Staffing chart is modified to reflect the site organization changes and the acronym changes as described above.
- (5) On page 6.2-4, the two-asterisk note is reworded to clarify which positions may be used to meet the requirements of ANSI N18.1-1971.
- (6) On page 6.5-1, item 6.5.1.2 is reworded to reflect the effects of the staffing chart changes on the composition of the Operations Committee.
- (7) On page 6.5-3, item 6.5.1.6.e. is changed to show that the reports on the investigation of all violations of the Technical Specifications shall now be forwarded to the Manager, Nuclear Division instead of the Director, Nuclear Generation.
- (8) On page 6.5-4, item 6.5.1.7.c. is changed to show that notification shall now be provided to the Manager, Nuclear Division instead of the Director, Nuclear Generation.
- (9) On page 6.5-4, item 6.5.1.8 is changed to show that the Operations Committee meeting minutes shall now be provided to the Manager, Nuclear Division instead of the Director, Nuclear Generation.

- (10) On page 6.6-1, item 6.6.1.a. is changed to show that Reportable Events shall be reviewed and reported to the Director, Nuclear Generation.
- (11) On page 6.7-1, items 6.7.2. and 6.7.3. are changed to show that the reporting activities will now be handled by the Manager, Nuclear Division instead of the Director, Nuclear Generation.

The staff finds that these proposed changes allow separate functional areas to be separately supervised and therefore, should enhance overall efficiency. We also find that these proposed changes should facilitate management responsiveness to plant activities. We find that these proposed changes, including the administrative changes, meet the criteria as specified in Sections 13.1.1 and 13.1.2 of NUREG-0800, the Standard Review Plan (SRP) and are therefore acceptable.

3.0 ENVIRONMENTAL CONSIDERATIONS

This amendment relates to changes in administrative procedures or requirements. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10) and pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with issuance of this amendment.

4.0 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, 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: C. Goodman
Dated: September 4, 1986