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BScharf (10)
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DEisenhut

ACRS (16)
OPA (Clare Miles)
DRoss
TBAbernathy
JRBuchanan

Docket No. 50-331

Iowa Electric Light & Power Company
ATTN: Mr. Duane Arnold, President
P. O. Box 351
Cedar Rapids, Iowa 52406

Gentlemen:

The Commission has issued the enclosed Amendment No. 27 to Facility License No. DPR-49 for the Duane Arnold Energy Center. This amendment consists of changes to the Technical Specifications and is in response to your applications dated April 23, 1976 and June 17, 1976.

This amendment will revise specific sections of the Administrative Controls portion of the Technical Specifications to reflect organizational changes and to revise the present structure for Safety Review and Audit of facility operations.

Copies of the related Safety Evaluation and the FEDERAL REGISTER Notice are also enclosed.

Sincerely,

Original signed by

George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosures:

1. Amendment No. 27
2. Safety Evaluation
3. FEDERAL REGISTER Notice

cc w/enclosures:
See next page

OFFICE	ORB #3	ORB #3	OELD	ORB #3		
SURNAME	CParrish	DVerrelli	W.D. Paton	GLear		
DATE	1/27/77	1/28/77	2/3/77	2/10/77		

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Iowa Electric Light & Power Company - 2 -

cc:

Mr. Robert Lowenstein, Esquire
Harold F. Reis, Esquire
Lowenstein, Newman, Reis and Axelrad
1025 Connecticut Avenue, 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 & Power Company
ATTN: Ellery L. Hammond
P. O. Box 351
Cedar Rapids, Iowa 52406

Chief, Energy Systems Analysis Branch (AW-459)
Office of Radiation Programs
U. S. Environmental Protection Agency
Room 645, East Tower
401 M Street, S. W.
Washington, D. C. 20460

U. S. Environmental Protection Agency
Region VII
ATTN: EIS COORDINATOR
1735 Baltimore Avenue
Kansas City, Missouri 64108

Cedar Rapids Public Library
426 Third Avenue, S. E.
Cedar Rapids, Iowa 52401



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

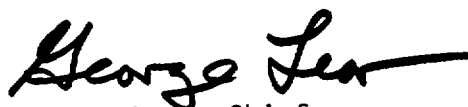
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 27
License No. DPR-49

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The applications for amendment by Iowa Electric Light and Power Company, Central Iowa Power Cooperative, and Corn Belt Power Cooperative (the licensees) dated April 23, 1976 and June 17, 1976, comply 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 a change to the Technical Specifications as indicated in the attachment to this license amendment.

3. This license amendment is effective 60 days from the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "George Lear", with a long horizontal flourish extending to the right.

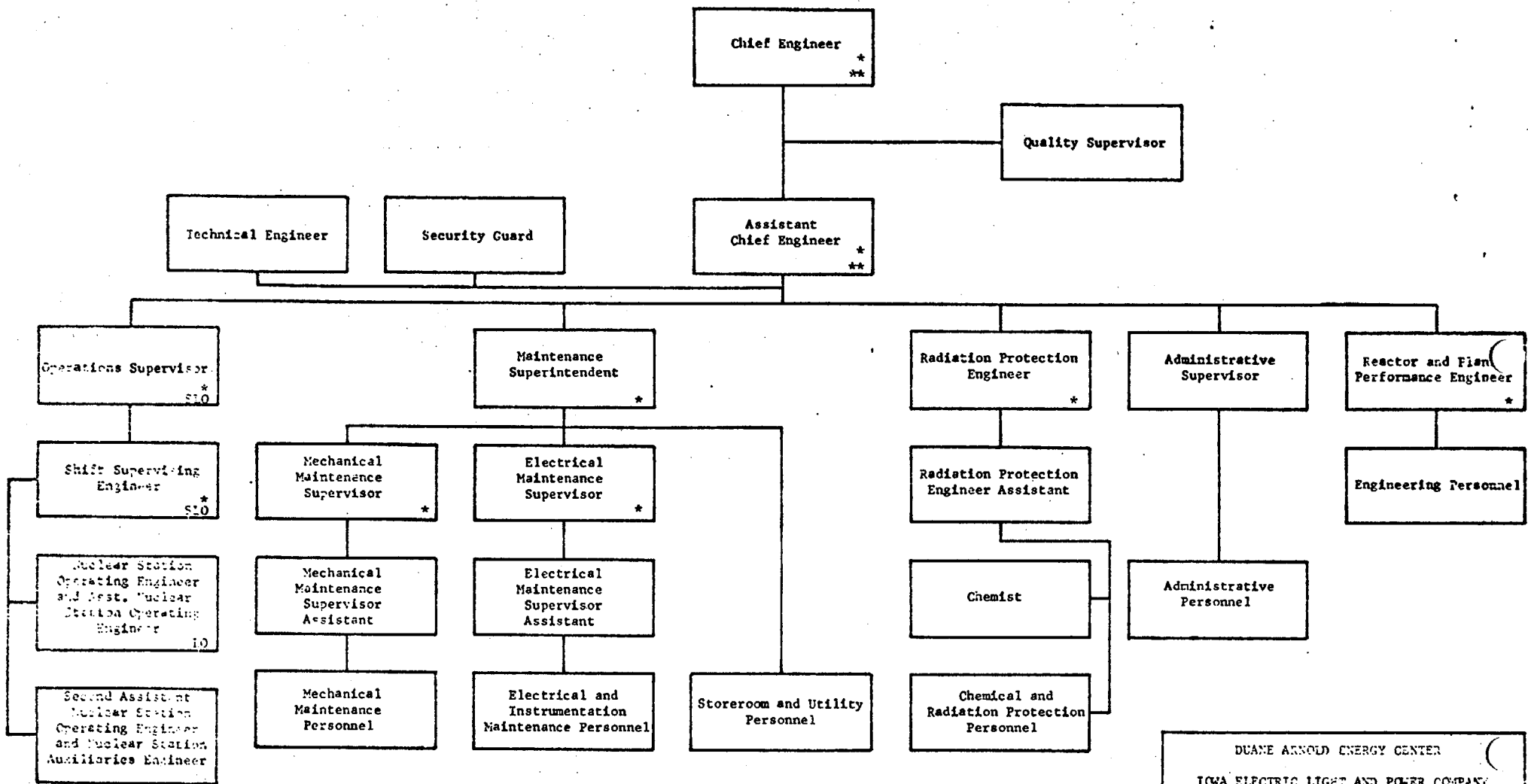
George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: February 11, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 27
TO THE TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSE NO. DPR-49
DOCKET NO. 50-331

Replace Figure 6.2-1 and pages 6.5-1 through 6.5-8 with the attached revised pages. Add page 6.5-9.



SLO - Senior Licensed Operator.

LO - Licensed Operator.

* - Routine Reporting Requirements on Change in Incumbents (Ref. Spec. 6.11.1).

** - Chief or Assistant Chief to Meet ANSI N.13.1-1971 License Requirements.

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 Chief Engineer on all matters related to nuclear safety.

6.5.1.2 Composition

The Operations Committee shall be composed of the Assistant Chief Engineer and Supervisors from the following departments: Operations, Maintenance, Reactor and Plant Engineering, Radiation Protection and Quality.

The Assistant Chief Engineer 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 Chief Engineer 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.

6.5.1.4 Meeting Frequency

The Operations Committee shall meet at least once per calendar month and as convened by the Operations Committee Chairman or Vice Chairman.

6.5.1.5 Quorum

A quorum of the Operations Committee shall consist of the Chairman or Vice Chairman and five members including alternates.

6.5.1.6 Responsibilities

The Operations Committee shall be responsible for:

- a. Review of (1) all procedures required by Specification 6.8, Plant Operating Procedures, and changes thereto, (2) any other proposed procedures or changes thereto as determined by the Chief Engineer to affect nuclear safety.
- b. Review of all proposed tests and experiments that affect nuclear safety.
- c. Review of all proposed changes to Appendix "A" Technical Specifications.
- d. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety.

- 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 Vice President-Generation and to the Chairman of the Safety Committee.
- f. Review of those Reportable Occurrences requiring 24 hour notification to the Commission.
- 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 and shall submit recommended changes to the Chairman of the Safety Committee.
- j. Review of the Emergency Plan and implementing procedures and shall submit recommended changes to the Chairman of the Safety Committee.

6.5.1.7 Authority

The Operations Committee shall:

- a. Recommend to the Chief Engineer 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 Vice President-Generation and the Safety Committee of disagreement between the Operations Committee and the Chief Engineer; however, the Chief Engineer shall have responsibility for resolution of such disagreements pursuant to Specification 6.1.1 above.

6.5.1.8 Records

The Operations Committee shall maintain written minutes of each meeting and copies shall be provided to the Vice President-Generation 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.

- c. Chemistry and radiochemistry.
- d. Metallurgy.
- e. Instrumentation and control.
- f. Radiological safety.
- g. Mechanical and electrical engineering.
- h. Quality assurance practices.

6.5.2.2 Composition

The Safety Committee shall be composed of persons who have been appointed in writing by the President to serve on a permanent basis and who collectively have or have access to applicable technical and experience expertise in the following areas:

- a. Nuclear power plant operations.
- b. Nuclear engineering.
- c. Chemistry and radiochemistry.
- d. Instrumentation and control.
- e. Radiation protection.

f. Mechanical and electrical engineering.

g. Nuclear safety.

6.5.2.3 Alternates

All alternate members shall be appointed in writing by the President to serve on a permanent basis.

6.5.2.4 Consultants

Consultants shall be utilized as determined by the Safety Committee Chairman to provide expert advice to the Safety Committee.

6.5.2.5 Meeting Frequency

The Safety Committee shall meet at least once per calendar quarter during the initial year of facility operation following fuel loading and at least once per six months thereafter.

6.5.2.6 Quorum

A quorum of the Safety Committee shall consist of the Chairman or Vice Chairman and at least four members including alternates. No more than a minority of the quorum shall have line responsibility for operation of the facility.

6.5.2.7 Review

The Safety Committee shall review:

- a. The safety evaluations for (1) changes to procedures, and (2) tests or experiments completed under the provision of Section 50.59, 10 CFR, to verify that such actions did not constitute an unreviewed safety question.
- b. Proposed changes to procedures, equipment or systems which involve an unreviewed safety question as defined in Section 50.59, 10 CFR.
- c. Proposed tests or experiments which involve an unreviewed safety question as defined in Section 50.59, 10 CFR.
- d. Proposed changes in Technical Specifications or licenses.
- e. Violations of applicable statutes, codes, regulations, orders, technical specifications, license requirements, or of internal procedures or instructions having nuclear safety significance.
- f. Significant operating abnormalities or deviations from normal and expected performance of plant equipment that affect nuclear safety.
- g. Reportable Occurrences requiring 24 hour notification to the Commission.
- h. All recognized indications of an unanticipated deficiency in some aspect of design or operation of safety related structures, systems, or components.

- i. Reports and meeting minutes of the Operations Committee.

6.5.2.8 Audits

Audits of facility activities shall be performed under the cognizance of the Safety Committee. These audits shall encompass:

- a. The conformance of facility operation to all provisions contained within the Technical Specifications and applicable license conditions at least once per 24 months.
- b. The performance, training and qualifications of the entire facility staff at least once per 24 months.
- c. The results of all actions taken to correct deficiencies occurring in facility equipment, structures, systems or method of operation that affect nuclear safety at least once per 6 months.
- d. The performance of all activities required by the Quality Assurance Program to meet the criteria of Appendix "B", 10 CFR 50, at least once per 24 months.
- e. The Preparedness Plan and implementing procedures at least once per 24 months.
- f. The Facility Security Plan and implementing procedures at least once per 24 months.

- g. Any other area of facility operation considered appropriate by the Safety Committee or the President.
- h. Design change request safety evaluations.

6.5.2.9 Authority

The Safety Committee shall report to and advise the President on those areas of responsibility specified in Specifications 6.5.2.7 and 6.5.2.8.

6.5.2.10 Records

Records of Safety Committee activities shall be prepared, approved and distributed as indicated below:

- a. Minutes of each Safety Committee meeting shall be prepared, approved and forwarded to the President within 14 days following each meeting.
- b. Reports of reviews encompassed by Specification 6.5.2.7 above, shall be prepared, approved and forwarded to the President within 14 days following completion of the review.
- c. Audit reports encompassed by Specification 6.5.2.8 above, shall be forwarded to the President and to the management positions responsible for the areas audited within 30 days after completion of the audit.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 27 TO FACILITY OPERATING LICENSE DPR-49

IOWA ELECTRIC LIGHT AND POWER COMPANY

CENTRAL IOWA POWER COOPERATIVE

CORN BELT POWER COOPERATIVE

DUANE ARNOLD ENERGY CENTER

DOCKET NO. 50-331

INTRODUCTION

By letters dated April 23, 1976 and June 17, 1976, Iowa Electric Light and Power Company proposed changes to the Technical Specifications of Facility Operating License No. DPR-49 for the Duane Arnold Energy Center. The proposed changes would revise specific sections of the Administrative Controls portion of the Technical Specifications to reflect organizational changes made at the Duane Arnold Energy Center (DAEC) and to revise the present structure for Safety Review and Audit of facility operations.

EVALUATION

The proposed changes are administrative in nature. The changes have been proposed to reflect the current organizational structure of the Facility operating staff and to align the DAEC review and audit specifications with the standard technical specifications for nuclear power reactors. Areas covered by the proposed specification include organizational structure, responsibilities, functions, authority and documentation of safety reviews. The proposed change is consistent with the intent of the Regulatory Staff's Standard Technical Specifications Section 6.5, "Review and Audit." The proposed change differs from the model specifications only in respect to the responsibility for review of safety evaluations associated with Design Change Requests. The model specifications propose that this review function be performed by the Safety Committee. At the Duane Arnold Energy Center, the corporate policy establishes that all design changes are developed and approved within the Engineering organization which does not have direct responsibility for plant operations. The Safety Committee's involvement in design changes has been included in its audit function. This deviation is not inconsistent with the intent of the model specifications to provide an independent review process, and is considered acceptable.

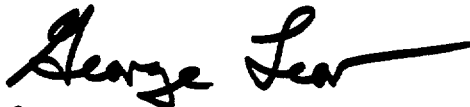
declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the applications for amendment dated April 23, 1976, and June 17, 1976, (2) Amendment No. 27 to License No. DPR-49, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street N.W., Washington, D. C. and at the Cedar Rapids Public Library, 426 Third Avenue, S.E., Cedar Rapids, Iowa 52401.

A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 11th day of February 1977.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "George Lear", with a long horizontal stroke extending to the right.

George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-331

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

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 27 to Facility Operating License No. DPR-49 issued to Iowa Electric Light and Power Company, Central Iowa Power Cooperative, and Corn Belt Power Cooperative, which revised Technical Specifications for operation of the Duane Arnold Energy Center, located in Linn County, Iowa. The amendment is effective 60 days from the date of issuance.

The amendment will revise specific sections of the Administrative Controls portion of the Technical Specifications to reflect organizational changes and to revise the present structure for Safety Review and Audit of facility operations.

The applications for the amendment comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative

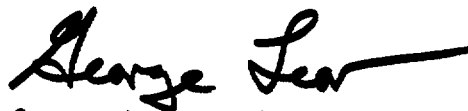
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Dated at Bethesda, Maryland, this 11th day of February 1977.

FOR THE NUCLEAR REGULATORY COMMISSION

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George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors