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Docket File (ENVIRON)

MAY 1 6 1975

Docket No. 50-331

Iowa Electric Light and Power Company
ATTN: Duane Arnold, President
Security Building
P. O. Box 351
Cedar Rapids, Iowa 52406

NRC PDR
Local PBR
Attorney, ELD
IE (3)
NDube, MIPC
BJones (w/4. encl)
RVollmer
WPaulson
STeets, OR
GLear, OR
OLynch
MDuncan
DMuller
BScharf (15)
SKari (w/o encl)
ACRS (16)
EP-4 Reading
NRR Reading

Gentlemen:

Your letter dated February 21, 1975, submitted proposed changes to Appendices A and B to Facility Operating License No. DPR-49. Separate evaluations are being made for recommendations for Appendix A and Appendix B. This letter relates only to approval of the changes in Appendix B which include changes in certain soil and vegetation environmental sampling locations and adjusting of sampling frequencies to availability of crops. Also, amendments to administrative controls in the technical specifications regarding operating procedure preparation, review and approval are proposed. Adequate justification for changes to Appendix B has been provided in your letter.

The staff has evaluated the potential for environmental impact of plant operation in accordance with the enclosed amendment. The amendment applies to administrative details, to the environmental sampling locations, and to sampling frequencies. The staff has determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level, and will not result in any significant environmental impact. Having made this determination, the Commission has further concluded pursuant to 10 CFR § 51.5(d)(4) that an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Since the amendment applies only to administrative details, to the environmental sampling locations, and to sampling frequencies, it does not involve significant new safety information of a type not considered by a previous Commission safety review of the facility. It does not involve a significant increase in the probability or consequences of an accident, does not involve a significant decrease in a safety margin, and therefore does not involve a significant hazards consideration. The Commission has also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

Onw, B/

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Accordingly, Amendment No. 7, Change 8 to Operating License No. DPR-49 is enclosed revising the Appendix B, Environmental Technical Specifications thereto to authorize the requested changes. A copy of a notice which is being forwarded to the Office of the Federal Register for publication relating to this action is also enclosed for your information.

Sincerely,

s/George E. Lear

George E. Lear, Chief
Operating Reactors Branch 3
Division of Reactor Licensing

Enclosures:

1. Amendment No. 7, Change 8
to License No. DPR-49
2. Federal Register Notice

cc: See Attached List

MEMO RETYPED TO INCLUDE OELD COMMENTS.
(INDICATES CONCURRENCE IN ENTIRE PACKAGE)

OFFICE >	RL:EP-4 MDuncan	RL:EP WRegan	RL:EP DMiller	ORB-3 WPaulson	ELD W.D. PATON	RL:PRB-3 GLear
SURNAME >	OLynch					
DATE >	5/1/75	5/3/75	5/5/75	5/5/75	5/9/75	5/14/75

IOWA ELECTRIC LIGHT & POWER COMPANY

DOCKET NO. 50-331

DUANE ARNOLD ENERGY CENTER

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 7
License No. DPR-49

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Iowa Electric Light & Power Company (the licensee) dated February 21, 1975, 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; and
 - 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.
2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.C.(2) of Facility 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, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Change No. 8."

OFFICE ➤						
SURNAME ➤						
DATE ➤						

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

2/
George E. Lear, Chief
Operating Reactors Branch 3
Division of Reactor Licensing

Attachment:
Change No. 8 to the
Technical Specifications

Date of Issuance: MAY 16 1975

ORB-3
WPaulson
3/ /75

OFFICE ➤	RL:EP-4	RL:EP-4	RL:EP	ELD	RL:OR	RL:ORB-3
SURNAME ➤	MDuncan:aj	WRegan	DRMueller		KGoller	GLear
DATE ➤	3/28/75	3/ /75	3/ /75	3/ /75	3/ /75	3/ /75

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 7 TO FACILITY OPERATING LICENSE NO. DPR-49

CHANGE NO. 8 TO TECHNICAL SPECIFICATIONS

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

DOCKET NO. 50-331

Revise Appendix B as follows:

Remove pages i, 4.3-8, 5.3-1; and insert the attached revised pages.
The changed areas on the revised pages are shown by marginal lines.

ORB-3
WPaulson
3/ /75

OFFICE ➤	RL:EP-4	RL:EP-4	RL:EP	ELD	RL:OR	RL:ORB-3
SURNAME ➤	MDuncan:aj OLynch	WRegan	DRMuller		KGoller	GLEar
DATE ➤	3/28/75	3/ /75	3/ /75	3/ /75	3/ /75	3/ /75

Effective January 19, 1975, activities under the U. S. Atomic Energy Commission regulatory program were assumed by the U. S. Nuclear Regulatory Commission in accordance with the Energy Reorganization Act of 1974. Any references to the Atomic Energy Commission (AEC) contained herein should be interpreted as Nuclear Regulatory Commission (NRC).

8

ENVIRONMENTAL TECHNICAL SPECIFICATIONS

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ENVIRONMENTAL RADIOACTIVITY MONITORING PROGRAM FOR THE DUANE ARNOLD ENERGY CENTER

SAMPLING DESCRIPTION			SAMPLE FREQUENCY		ANALYSIS	REMARKS
Type of Sample	Sample Point	Sampling Point Description	Preoperational Program	Operational Program		
Bottom Sediments	49	Lewis Access	Monthly	Semi-Annually	Gross alpha Gross beta $-K^{40}$ Gamma isotopic analysis ^{90}Sr	Routine gross alpha and gross beta $-K^{40}$ during preoperational phase.
	50	Plant Intake				
	51	Plant Discharge				
	61	One-half mile below plant discharge				
Soil	15	On-site	Quarterly	Annual during growing season	Gross alpha Gross beta $-K^{40}$ Gamma isotopic analysis ^{90}Sr	Routine gross alpha and gross beta $-K^{40}$ during preoperational phase. Surface sample from undisturbed area.
	16	On-site				
	62-64,	Farms (within 10 miles				
	66-68,	of the site) that				
	71-73,	raise food crops				
	93-94					
	74	Irrigated farm downstream of plant				
Vegetation	62-64,	Farms that raise	Annually at harvest time (as available)	Annually at harvest time	Gross alpha Gross beta $-K^{40}$ Gamma isotopic analysis ^{90}Sr	Routine gross alpha and gross beta $-K^{40}$ during preoperational phase. Only the edible portion of crops will be analyzed.
	66-68,	food crops				
	71-73,					
	93-94					
Meat and Poultry		Farms (within 10 miles of the site) that raise poultry or animals for human consumption	As Available	Annually during or immediately following grazing season	Gamma isotopic analysis on edible portions	The specific location of these samples will vary with availability

5.0 ADMINISTRATIVE CONTROL

5.3 Operating Procedures

- A. Detailed written procedures or instructions, including applicable checkoff lists, will be prepared, approved and adhered to for operation of all on site DAEC systems and components involved in carrying out the plant environmental monitoring program of Section 2.0. Procedures will include sampling, instrument calibrations, analysis and actions to be taken when limits are approached or exceeded. 8

Calibration frequencies for instruments used in performing the measurements required by the ETS will be included. A Quality Control Program will be followed for the calibration of instruments and sensors and records will be maintained.

Testing frequency of alarms will be included. These frequencies will be determined from experience with similar instruments in similar environments and from manufacturers technical manuals.

- B. Appropriate written procedures or instructions will be prepared, approved and adhered to for collection of samples indicated in Section 4.0. Applicable analytical procedures will be prepared, approved and adhered to for performing analysis of these samples collected. 8
- C. All procedures described in 5.3.A above, and changes thereto, will be reviewed as specified in Section 5.1 and approved by the Chief Engineer prior to implementation. Temporary changes to procedures which do not change the intent of the original procedures may be made, provided such changes are approved by two members of the plant management staff. Such changes will be documented, subsequently reviewed and approved on a timely basis. 8
- D. The analytical procedures described in 5.3.B above and changes thereto will be reviewed by the management of the respective organization which is responsible or contracted to perform the work. All collection procedures described in 5.3.B above and changes thereto will be approved by the DAEC Chief Engineer and Radiation Protection Engineer. Temporary changes to procedures which do not change the intent of the original procedures may be made provided such changes are approved by a supervisory person other than the person making the change. Such changes will be documented, subsequently reviewed and approved on a timely basis. 8

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-331

IOWA ELECTRIC LIGHT AND POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY

OPERATING LICENSE

Notice is hereby given that the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 7 to Facility Operating License No. DPR-49 issued to Iowa Electric Light & Power Company which revised Technical Specifications for operation of the Duane Arnold Energy Center located in Linn County, Iowa. The amendment is effective of its date of issuance.

The amendment changes references from the U. S. Atomic Energy Commission to the U. S. Nuclear Regulatory Commission. Also certain soil and vegetation environmental sampling locations are changed and sampling frequencies adjusted to availability of crops. Administrative controls in the technical specifications were amended regarding operating procedure preparation, review and approval.

The application for the amendment complies 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 is not required since the amendment does not involve a significant hazards consideration.

OFFICE ➤						
SURNAME ➤						
DATE ➤						

For further details with respect to this action, see (1) the application for amendment dated February 21, 1975, and (2) Amendment No. 7 to License No. DPR-49 with Change No. 8. Both 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 52041.

A copy of item (2) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Reactor Licensing.

Dated at Bethesda, Maryland, this 16th day of MAY 1975.

FOR THE NUCLEAR REGULATORY COMMISSION

5/
George E. Lear, Chief
Operating Reactors Branch 4
Division of Reactor Licensing

ORB-3
WPaulson
3/ /75

OFFICE ➤	RL:EP-4	RL:EP-4	RL:EP	ELD	RL:OR	RL:ORB-3
SURNAME ➤	MDuncan:aj OLynch	WRegan	DRMuller		KGoller	GLear
DATE ➤	3/28/75	3/ /75	3/ /75	3/ /75	3/ /75	3/ /75

Docket No. 50-331

MAY 16 1975

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MDuncan

Docketing & Service Section
Office of the Secretary

FEDERAL REGISTER NOTICE - IOWA ELECTRIC LIGHT AND POWER COMPANY

Two signed originals of a Federal Register notice identified as follows are enclosed for transmittal to the Office of the Federal Register for filing and publication.

DOCKET NO. 50-331

IOWA ELECTRIC LIGHT & POWER COMPANY

DUANE ARNOLD ENERGY CENTER

NOTICE OF ISSUANCE TO FACILITY OPERATING LICENSE

Twelve additional conformed copies are enclosed for your use.

Original signed by
Wm. H. Regan, Jr.

Wm. H. Regan, Jr., Chief
Environmental Projects Branch 4
Division of Reactor Licensing

Enclosures:
As stated

OFFICE ➤	DRL:EP-4	DRL:EP-4	DRL:EP-4			
SURNAME ➤	MDuncan:sl	OLynch	WRegan			
DATE ➤	3/28/75	3/16/75	3/16/75			

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Docket No. 50-331

JAN 15 1975

Chairman
Advisory Committee on Reactor
Safeguards
U.S. Atomic Energy Commission
Washington, D.C. 20545

Subject: **IOWA ELECTRIC LIGHT & POWER COMPANY**
(Duane Arnold Energy Center, Unit 1)

The following documents concerning our review of the subject facility
are transmitted for your information:

- ☐ Notice of Receipt of Application.
- ☐ Draft Environmental Statement, dated _____.
- ☐ Final Environmental Statement, dated _____.
- ☐ Safety Evaluation, or Supplement No. _____, dated _____.
- ☐ Notice of Hearing on Application for Construction Permit.
- ☐ Notice of Consideration of Issuance of Facility Operating License.
- ☐ Application and Safety Analysis Report, Vol. _____.
- ☐ Amendment No. _____ to Application/SAR, dated _____.
- ☐ Construction Permit No. CPPR-_____, dated _____.
- ☐ Facility Operating License No. DPR-_____, dated _____.
- ☐ Technical Specifications, or Change No. _____, dated _____.
- ☒ Other: **Startup Test Results Report**

Directorate of Licensing

Enclosures: (1)
As stated

cc:

E. L. L. L.
2

OFFICE ▶	L:EP-4					
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DATE ▶	1/15/75					

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JAN 15 1975

Docket No. 50-331

Chief,
Division of River Basin Studies
Bureau of Sport Fisheries and Wildlife
Dept. of Interior
18th & C Sts., N.W.
Washington, D.C. 20240

Subject: IOWA ELECTRIC LIGHT & POWER COMPANY
(Duane Arnold Energy Center, Unit 1)

The following documents concerning our review of the subject facility
are transmitted for your information:

- ☐ Notice of Receipt of Application.
- ☐ Draft Environmental Statement, dated _____.
- ☐ Final Environmental Statement, dated _____.
- ☐ Safety Evaluation, or Supplement No. _____, dated _____.
- ☐ Notice of Hearing on Application for Construction Permit.
- ☐ Notice of Consideration of Issuance of Facility Operating License.
- ☐ Application and Safety Analysis Report, Vol. _____.
- ☐ Amendment No. _____ to Application/SAR, dated _____.
- ☐ Construction Permit No. CPPR- _____, dated _____.
- ☐ Facility Operating License No. DPR- _____, dated _____.
- ☐ Technical Specifications, or Change No. _____, dated _____.
- ☒ Other: Startup Test Results Report

Directorate of Licensing

Enclosures: (1)
As stated

cc:

Commission
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DATE ▶	1/15/75					

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OLynch
SReed

JAN 15 1975

Docket No. 50-331

Mr. Ed Vest
Environmental Protection Agency
1735 Baltimore Avenue
Kansas City, Missouri 64108

Subject: **IOWA ELECTRIC LIGHT & POWER COMPANY**
(Duane Arnold Energy Center Unit 1)

The following documents concerning our review of the subject facility
are transmitted for your information:

- ☐ Notice of Receipt of Application.
- ☐ Draft Environmental Statement, dated _____.
- ☐ Final Environmental Statement, dated _____.
- ☒ Safety Evaluation, or Supplement No. _____, dated _____.
- ☐ Notice of Hearing on Application for Construction Permit.
- ☐ Notice of Consideration of Issuance of Facility Operating License.
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- ☐ Amendment No. _____ to Application/SAR, dated _____.
- ☐ Construction Permit No. CPPR-_____, dated _____.
- ☐ Facility Operating License No. DPR-_____, dated _____.
- ☐ Technical Specifications, or Change No. _____, dated _____.
- ☒ Other: **Startup Test Results Report**

Directorate of Licensing

Enclosures: (1)
As stated

cc:

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OFFICE ▶	L:EP-4					
SURNAME ▶	SReed:s1					
DATE ▶	1/15/75					

IDENTICAL LTRS SENT TO:
Chief (2)
Division of River Basin
Studies
Bureau of Sport Fisheries
and Wildlife
Dept. of Interior
18th & C Sts., N.W.
Washington, D.C. 20240

July 1, 1974

Docket No. 50-331

Mr. Neill Thomasson
ATTN: Loretta Long
Office of Radiation Programs
Rm. 647A - East Tower - Waterside Mall
401 M. Street, S.W.
Washington, D.C. 20460

Subject:

**IOWA ELECTRIC LIGHT AND POWER COMPANY
(Duane Arnold Energy Center)**

Dr. William R. Stratton
Chairman (3)
Advisory Committee on
Reactor Safeguards
U.S.A.E.C.
Washington, D.C. 20545

The following documents concerning our review of the subject facility
are transmitted for your information:

- ☐ Notice of Receipt of Application.
- ☐ Draft Environmental Statement, dated _____.
- ☐ Final Environmental Statement, dated _____.
- ☐ Safety Evaluation, or Supplement No. _____, dated _____.
- ☐ Notice of Hearing on Application for Construction Permit.
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- ☐ Construction Permit No. CPPR- _____, dated _____.
- ☐ Facility Operating License No. DPR- _____, dated _____.
- ☐ Technical Specifications, or Change No. _____, dated _____.
- ☒ Other: **Ltr. frm. Iowa Elec. Light & Power CO. dtd. June 13, 1974**
trans. Environmental Monitoring Program & Annual Summary#1

Directorate of Licensing

Enclosures: (1)
As stated

cc: Mr. Ed Vest (1)
Environmental Protection Agency
1735 Baltimore Avenue
Kansas City, Missouri 64108

Distribution:
Docket File (Environ)
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OFFICE ▶

Kansas City, Missouri 64108

L:EP-4

FASTMary
SReed

SURNAME ▶

SReed:CC

DATE ▶

7/1/74