

APR 1 2 1977

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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. 31 to Facility License No. DPR-49 for the Duane Arnold Energy Center (DAEC). This amendment consists of a change to the Technical Specifications in response to your request of June 9, 1976.

The amendment revises the Environmental Radioactivity Monitoring Program for the DAEC contained in the Environmental Technical Specifications by replacing one sample point used for obtaining soil, vegetation and milk samples and by adding one new sample point.

We have evaluated the effect of this change on the Environmental Radioactivity Monitoring Program. We have concluded that your proposal to delete one sample point (sample point 64), where there are no longer any cows to provide milk samples, and to replace it with a sample point where cows are available, would provide an improvement to your existing monitoring program; therefore, we find it to be acceptable. We have also concluded that your proposal to add a new sample point (sample Point 98) in the direction of the prevailing winds would also be an improvement to the existing monitoring program; therefore, it also is acceptable.

We have 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, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR §51.5(d)(4) that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Since the amendment applies only to environmental monitoring requirements, it does not involve any new safety considerations of a type not previously documented in a safety review of the facility. Therefore,

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Iowa Electric Light &
Power Company

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we have concluded that the amendment does not involve a significant increase in the probability or consequences of an accident, does not involve a significant decrease in safety margin; and thus, does not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

A copy of the related FEDERAL REGISTER Notice is also enclosed.

Sincerely,

Original signed by
George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosures:

1. Amendment NO. 31 to DPR-49.
2. FEDERAL REGISTER Notice

cc w/encs:
See next page

see attached notes

DFE [signature] 3/30/77

OFFICE	ORB #3	ORB #3	OELD	ORB #3	DOR	DOR
SURNAME	Wetmore	CParrish	WDPeters	GLear	SBland	BGrimes
DATE	3/2/77	3/ /77	4/17/77	4/12/77	3/30/77	3/30/77

Iowa Electric Light & Power Company - 3 -

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. 31
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, Central Iowa Power Cooperative, and Corn Belt Power Cooperative (the licensees) dated June 9, 1976, 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.

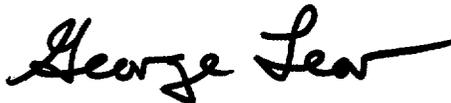
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-49 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 31, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION



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

Attachment: Changes to the Environmental
Technical Specifications

Date of Issuance: April 12, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 31
TO THE ENVIRONMENTAL TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSE NO. DPR-49
DOCKET NO. 50-331

Replace pages 4.3-8, 4.3-10 and 4.3-11* and 4.3-13 (Figure 4.3-1) with the attached revised pages.

***IMPORTANT:**

Overleaf page 4.3-12 (Figure 4.1-1) has not been included in this document due to expense and difficulty of reproduction. Please retain this page for document completeness.

TABLE 4.3-1 (Continued)

ENVIRONMENTAL RADIOACTIVITY MONITORING PROGRAM FOR THE DUANE ARNOLD ENERGY CENTER

SAMPLING DESCRIPTION		SAMPLE FREQUENCY	ANALYSIS	REMARKS	
Type of Sample	Sample Point	Sampling Point Description	Operational Program		
Bottom Sediments	49	Lewis Access	Semi-Annually	Gamma isotopic analysis 90 Sr	
	50	Plant intake			
	51	Plant Discharge			
	61	One-half mile below plant discharge			
Soil	15	On-site	Triannually during growing season	Gamma isotopic analysis 90 Sr	Surface sample from undisturbed area.
	16	On-site			
	62-63	Farms (within 10 miles of the site) that			
	66	raise food crops.			
	72-73	Irrigated farm			
	93-96	downstream of plant			
Vegetation	62-63	Farms that raise	Annually at harvest time	Gamma isotopic analysis 90 Sr	Only the edible portion of crops will be analyzed.
	66	food crops			
	72-73				
	93-98				
Meat and Poultry		Farms (within 10 miles of the site) that raise poultry or animals for human consumption	Annually during or immediately following grazing season	Gamma isotopic analysis on edible portions	The specific location of these samples will vary with availability.

4.3-8

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TABLE 4.3-1 (Continued)

ENVIRONMENTAL RADIOACTIVITY MONITORING PROGRAM FOR THE DUANE ARNOLD ENERGY CENTER

SAMPLING DESCRIPTION		SAMPLE FREQUENCY	ANALYSIS	REMARKS
Type of Sample	Sample Point	Sampling Point Description	Operational Program	
Milk	62	Control Farm near Brendon, Iowa	Weekly	^{131}I
	63-	Dairy farms within 10 mi. of site		<p>During the grazing season samples from locations 63, 94 and 93 will be analyzed individually.</p> <p>During the grazing season samples from locations 97, 66, 67, 68, 71 & 72 will be composited and analyzed. If the composite sample is greater than 2.4 pCi/l the location will be resampled and samples analyzed individually.</p> <p>During the grazing season samples from locations 62 and 73 will be composited and analyzed. If the composite sample is greater than 2.4 pCi/l the location will be resampled and samples analyzed individually.</p>
	66	Dairy farms within 10 mi. of site		
	72	Dairy farms within 10 mi. of site		
	73	Control farm near Amana, Iowa		
	94	Dairy farm within 10 mi. of site		
	93-98	Dairy farm within 10 mi. of site		

TABLE 4.3-1(Continued)

ENVIRONMENTAL RADIOACTIVITY MONITORING PROGRAM FOR THE DUANE ARNOLD ENERGY CENTER

SAMPLING DESCRIPTION		SAMPLE FREQUENCY	ANALYSIS	REMARKS	
Type of Sample	Sample Point	Sampling Point Description	Operational Program		
Milk	62	Control farm near Brendon, Iowa	Monthly	89Sr	During the grazing season a portion of the weekly sample from each location will be composited for analysis.
	63	Dairy farms within 10 mi. of site		90Sr	
	66	Dairy farms within 10 mi. of site		137Cs	
	72	Dairy farms within 10 mi. of site		140Ba - 140La	
	73	Control farm near Amana, Iowa	Monthly	Elemental Ca	During the non-grazing season a sample from all locations except locations 62 and 73 will be composited and analyzed.
	94	Dairy farm within 10 mi. of site		131I	
	93-98	Dairy farm within 10 mi. of site			

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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. 31 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 Environmental Technical Specifications for operation of the Duane Arnold Energy Center, located in Linn County, Iowa. The amendment is effective as of its date of issuance.

The amendment consists of changes to the Environmental Technical Specifications which will revise the Environmental Radioactivity Monitoring Program by replacing one sample point used for obtaining soil, vegetation and milk samples and adding one new sample point.

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 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 declaration

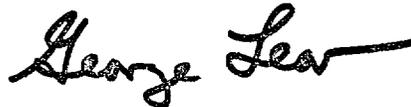
and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated June 9, 1976, (2) Amendment No. 31 to License No. DPR-49, and (3) the Commission's transmittal letter to the licensee. 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 12th day of April 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



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