



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

50-331

May 22, 1998

Amend to Lic
SEE REPORT:
PARTS 1 + 2

Mr. Lee Liu
Chairman of the Board
and Chief Executive Officer
IES Utilities Inc.
200 First Street, SE.
P.O. Box 351
Cedar Rapids, IA 52406-0351

SUBJECT: AMENDMENT NO. 223 TO FACILITY OPERATING LICENSE NO. DPR-49 -
DUANE ARNOLD ENERGY CENTER (TAC NO. M97197)

Dear Mr. Liu:

The U.S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 223 to Facility Operating License No. DPR-49 for the Duane Arnold Energy Center. This amendment consists of changes to the Technical Specifications (TS) in response to your application dated October 30, 1996, as supplemented by letters dated June 10, September 5, 17, 25, and 30, October 16, November 18 and 21, December 8 and 15, 1997, January 2, 5, 12, 22 and 23, February 10 and 26, March 23 and 31, and April 17, 1998.

The amendment reflects full conversion from your current TS to a set of TS based on NUREG-1433, "Standard Technical Specifications, General Electric Plants BWR/4," Revision 1, dated April 1995, and on guidance provided in the Commission's "Final Policy Statement on Technical Specifications Improvements for Nuclear Power Reactors," published on July 22, 1993 (58 FR 39132). In addition to the TS conversion, the amendment also revises the TS requirements for the combinations of emergency core cooling systems/subsystems that may be out of service and relaxes the required flowrates for the core spray, the low pressure coolant injection, and the high pressure coolant injection systems.

The amendment also modifies the license by adding a new license condition which establishes an Appendix B to the license for additional license conditions. For this amendment, a condition is added to Appendix B describing the relocation of certain TS requirements to licensee controlled documents.

The technical changes to current TS 3.4 for the standby liquid control system operability requirements and to the current TS definitions of cold shutdown and cold condition to accommodate reactor vessel hydrostatic testing included in this amendment were previously approved in Amendments 220 and 221 issued on March 31, 1998. For these TS, the implementation of Amendment 223 will result in a format change only.

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PDR ADDCK 05000331
P PDR

A copy of the Safety Evaluation and the Notice of Issuance which has been forwarded to the Office of the Federal Register for publication are also enclosed.

Sincerely,



Richard J. Laufer, Project Manager
Project Directorate III-3
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Docket No. 50-331

Enclosures: 1. Amendment No. 223 to
License No. DPR-49
2. Safety Evaluation
3. Notice of Issuance

cc w/encls: See next page

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Original signed by:

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Distribution w/encls:

Docket File GHill (2)
PUBLIC GGrant, RIII

Distribution (letter only):

PD3-3 r/f WBeckner, TSB
ACRS EAdensam
OGC RBellamy
GKelly

DOCUMENT NAME: G:\DUANEARN\ITSCON\DUA97197.AMD * see previous concurrence

OFFICE	PD33:PM		PD33:LA	C	TSB:BC		OGC	
NAME	RLaufer <i>RL</i>		EBarnhill		WBeckner *		JHull *	
DATE	5/12/98		5/19/98		5/21/98		5/19/98	

OFFICIAL RECORD COPY

Lee Liu
IES Utilities Inc.

Duane Arnold Energy Center

cc:

Jack Newman, Esquire
Kathleen H. Shea, Esquire
Morgan, Lewis, & Bockius
1800 M Street, NW.
Washington, DC 20036-5869

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

IES Utilities Inc.
ATTN: Gary Van Middlesworth
Plant Superintendent, Nuclear
3277 DAEC Road
Palo, IA 52324

John F. Franz, Jr.
Vice President, Nuclear
Duane Arnold Energy Center
3277 DAEC Road
Palo, IA 52324

Ken Peveler
Manager of Regulatory Performance
Duane Arnold Energy Center
3277 DAEC Road
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U.S. Nuclear Regulatory Commission
Resident Inspector's Office
Rural Route #1
Palo, IA 52324

Regional Administrator, RIII
U.S. Nuclear Regulatory Commission
801 Warrenville Road
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Parween Baig
Utilities Division
Iowa Department of Commerce
Lucas Office Building, 5th floor
Des Moines, IA 50319

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NUCLEAR REGULATORY COMMISSION**
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IES UTILITIES INC.

CENTRAL IOWA POWER COOPERATIVE

CORN BELT POWER COOPERATIVE

DOCKET NO. 50-331

DUANE ARNOLD ENERGY CENTER

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 223
License No. DPR-49

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by IES Utilities Inc., et al., dated October 30, 1996, as supplemented by letters dated June 10, September 5, 17, 25, and 30, October 16, November 18 and 21, December 8 and 15, 1997, January 2, 5, 12, 22 and 23, February 10 and 26, March 23 and 31, and April 17, 1998, 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 Appendix A, as revised through Amendment No. 223, are hereby incorporated in the license. IES Utilities Inc., shall operate the facility in accordance with the Technical Specifications.

- (1) For Surveillance Requirements (SRs) that are new in Amendment 223 to Final Operating License DPR-49, the first performance is due at the end of the first surveillance interval that begins at implementation of Amendment 223. For SRs that existed prior to Amendment 223, including SRs with modified acceptance criteria and SRs whose frequency of performance is being extended, the first performance is due at the end of the first surveillance interval that begins on the date the Surveillance was last performed prior to implementation of Amendment 223.

In addition, the license is amended to add paragraph 2.(C).7 to the Facility Operating License No. DPR-49 as follows:

3. Additional Conditions

The Additional Conditions contained in Appendix B, as revised through Amendment No. 223, are hereby incorporated into this license. IES Utilities Inc., shall operate the facility in accordance with the Additional Conditions.

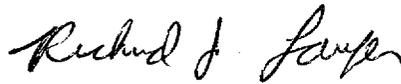
3. A license condition is also added to Appendix B with this amendment to read as follows:

<u>Amendment Number</u>	<u>Additional Conditions</u>	<u>Implementation Date</u>
223	The licensee is authorized to relocate certain requirements included in Appendix A to licensee-controlled documents. Implementation of this amendment shall include the relocation of these requirements to the appropriate documents, as described in the licensee's application dated October 30, 1996, as supplemented, and consolidated in its March 31, 1998, submittal. These relocations were evaluated in the NRC staff's Safety Evaluation enclosed with this amendment.	This amendment is effective immediately and shall be implemented within 180 days of the date of this amendment.

Appendix B to Facility Operating License No. DPR-49, is added by this amendment with Attachment 4.

4. The license amendment is effective as of the date of issuance and shall be implemented within 180 days of the date of issuance. Implementation shall include implementation of the license condition provided in paragraph 3 above regarding the relocation of certain requirements.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard J. Laufer, Project Manager
Project Directorate III-3
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Attachment:

1. Page 3 to the License
2. Page 4 to the License
3. Page 4a to the License
4. Appendix B to the License
5. Changes to the Technical Specifications

Date of Issuance: May 22, 1998

- 2.B.(2) IES Utilities Inc., pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Updated Final Safety Analysis Report, as supplemented and amended as of June 1992 and as supplemented by letters dated March 26, 1993, and October 3, 1997;
 - 2.B.(3) IES Utilities Inc., pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
 - 2.B.(4) IES Utilities Inc., pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated radioactive apparatus components;
 - 2.B.(5) IES Utilities Inc., pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not to separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.
- C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I; Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

Maximum Power Level

- 2.C.(1) IES Utilities Inc. is authorized to operate the Duane Arnold Energy Center at steady state reactor core power levels not in excess of 1658 megawatts (thermal).

- (2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 223, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

- (a) For Surveillance Requirements (SRs) that are new in Amendment 223 to Final Operating License DPR-49, the first performance is due at the end of the first surveillance interval that begins at implementation of Amendment 223. For SRs that existed prior to Amendment 223, including SRs with modified acceptance criteria and SRs whose frequency of performance is being extended, the first performance is due at the end of the first surveillance interval that begins on the date the Surveillance was last performed prior to implementation of Amendment 223.

(3) Fire Protection

IES Utilities Inc. shall implement and maintain in effect all provisions of the approved fire protection program as described in the Final Safety Analysis Report for the Duane Arnold Energy Center and as approved in the SER dated June 1, 1978, and Supplement dated February 10, 1981, subject to the following provision:

The licensee may make changes to the approved fire protection program without prior approval of the Commission only if those changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.

- (4) The licensee is authorized to operate the Duane Arnold Energy Center following installation of modified safe-ends on the eight primary recirculation system inlet lines which are described in the licensee letter dated July 31, 1978, and supplemented by letter dated December 8, 1978.

(5) Physical Protection

The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans, including amendments made pursuant to the authority of 10 CFR 50.54(p). The approved plans, which contain Safeguards Information as described in 10 CFR 73.21, are collectively entitled:

"Duane Arnold Energy Center Security Plan" dated December 1, 1978, January 19, March 9 and March 21, 1978, as revised through revisions dated January 1984 (transmittal letter dated January 12, 1984), as revised by revision dated February 1984 (transmittal letter dated February 27, 1984), as revised by revision dated September 1984 (transmittal letter

dated September 26, 1984); "Duane Arnold Energy Center Safeguards Contingency Plan," dated April 1980, as revised through revision dated January 1984 (transmittal letter dated January 12, 1984); "Duane Arnold Energy Center Guard Training and Qualification Plan" dated January 29, 1982, as revised April 1, 1982, as revised through revisions dated January 1984 (transmittal letter dated January 12, 1984), as revised by updated revisions (transmittal letter dated July 30, 1984), as revised by revision dated September 1984 (transmittal letter dated September 26, 1984) as revised by revision dated October 1984 (transmittal letter dated October 26, 1984).

2.C.(6) Deleted

2.C.(7) Additional Conditions

The Additional Conditions contained in Appendix B, as revised through Amendment No. 223, are hereby incorporated into this license. IES Utilities Inc. shall operate the facility in accordance with the Additional Conditions.

D. This license is effective as of the date of issuance and shall expire at midnight February 21, 2014.

FOR THE ATOMIC ENERGY COMMISSION

Original signed by Roger Boyd for

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Enclosures:

Appendix A Technical Specifications

Appendix B Additional Conditions

Date of issuance: February 22, 1974

APPENDIX B

ADDITIONAL CONDITIONS
OPERATING LICENSE NO. DPR-49

IES Utilities Inc. (the term licensee in Appendix B refers to IES Utilities Inc.) shall comply with the following conditions on the schedule noted below:

<u>Amendment Number</u>	<u>Additional Conditions</u>	<u>Implementation Date</u>
223	The licensee is authorized to relocate certain requirements included in Appendix A to licensee-controlled documents. Implementation of this amendment shall include the relocation of these requirements to the appropriate documents, as described in the licensee's application dated October 30, 1996, as supplemented, and consolidated in its March 31, 1998, submittal. These relocations were evaluated in the NRC staff's Safety Evaluation enclosed with this amendment.	This amendment is effective immediately and shall be implemented within 180 days of the date of this amendment.

ATTACHMENT TO LICENSE AMENDMENT NO. 223

FACILITY OPERATING LICENSE NO. DPR-49

DOCKET NO. 50-331

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages.

Remove Pages

Insert Pages

All TS Pages

New TS Pages