NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 6152

FILE:

FROM: Iowa Electric Light and Power Co. Cedar Rapids, Iowa Duane Arnold	DATE OF DOC 5-28-75	DATE REC'D 6-5-75	LTR xxx	TWX	RPT	OTHER
TO: Mr. B.C. Rusche	ORIG 3-signed	CC 37	OTHER	SENT NRC PDR xxx SENT LOCAL PDR xxx		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D 40	DOCKET NO: 50-331	

DESCRIPTION:

Ltr notarized 5-28-75 .... trans the following:

ENCLOSURES:

Proposed Change RTS-23 to DAEC Tech- Specs ....

PLANT NAME: Duane Arnold

FOR ACTION/INFORMATION 6-6-75 JGB

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
CLARK (L) W/ Copies	STOLZ (L) W/ Copies	DICKER (E) W/ Copies	✓LEAR (L) W/ 6 Copies
PARR (L) W/ Copies	VASSALLO (L) W/ Copies	KNIGHTON (E) W/ Copies	SPIES W/ Copies
KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	LPM W/ Copies

INTERNAL DISTRIBUTION

✓REG FILE	TECH REVIEW	DENTON	LIC ASST	A/T IND
✓NRC PDR	SCHROEDER	GRIMES	R. DIGGS (L)	BRAITMAN
✓OGC, ROOM P-506A	MACCARY	GAMMILL	H. GEARIN (L)	SALTZMAN
✓GOSSICK/STAFF	KNIGHT	KASTNER	E. GOULBOURNE (L)	MELTZ
CASE	PAWLICKI	BALLARD	P. KREUTZER (E)	
GIAMBUSSO	SHAO	SPANGLER	J. LEE (L)	PLANS
BOYD	STELLO		M. MAIGRET (L)	MCDONALD
MOORE (L)	HOUSTON	ENVIRO	S. REED (E)	CHAPMAN
✓DEYOUNG (L)	NOVAK	MULLER	M. SERVICE (L)	DUBE (Ltr)
SKOVHOLT (L)	ROSS	DICKER	S. SHEPPARD (L)	E. COUPE
GOLLER (L) (Ltr)	IPPOLITO	KNIGHTON	M. SLATER (E)	PETERSON
P. COLLINS	TEDESCO	YOUNGBLOOD	H. SMITH (L)	HARTFIELD (2)
DENISE	LONG	REGAN	✓S. TEETS (L)	KLECKER
✓REG OPR	LAINAS	✓PROJECT LDR	G. WILLIAMS (E)	EISENHUT
FILE & REGION (2)	BENAROYA	BEVAN	V. WILSON (L)	WIGGINTON
MIPC	VOLLMER	HARLESS	R. INGRAM (L)	
			M. DUNCAN	appl (2)

EXTERNAL DISTRIBUTION

✓1 – LOCAL PDR Cedar Rapids, Iowa
✓1 – TIC (ABERNATHY) (1)(2)(10) – NATIONAL LABS
✓1 – NSIC (BUCHANAN) 1 – W. PENNINGTON, Rm E-201 GT
1 – ASLB 1 – CONSULTANTS
1 – Newton Anderson NEWMARK/BLUME/AGBABIAN
J14 – ACRS [redacted] SENT

1 – PDR-SAN/LA/NY
1 – BROOKHAVEN NAT LAB
1 – G. ULRIKSON ORNL

RM

to Lic Asst.

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

DUANE ARNOLD
CHAIRMAN OF THE BOARD
AND PRESIDENT

50-331

May 28, 1975

Mr. B.C. Rusche, Director
Office of Nuclear Reactor
U.S. Nuclear Regulatory Commission
Washington, D.C. 20545

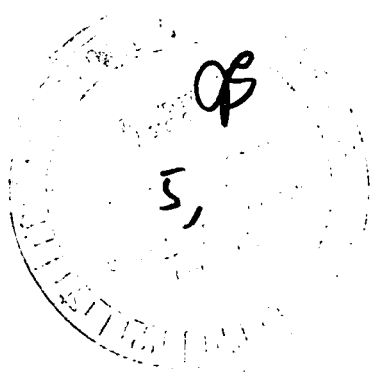
Dear Mr. Rusche:

Transmitted herewith, in accordance with the requirements of 10CFR 50.59 and 50.90, are changes to the application for amendment of DPR-49 submitted to you February 21, 1975, to incorporate proposed changes in the Technical Specifications (Appendix A to License) for the Duane Arnold Energy Center.

RTS-23 (attached) has been revised to include a description of how the LPRM's and APRM's are calibrated and to change the extent of the proposed change.

In addition, after further review by the DAEC staff, it has been decided that proposed changes RTS-17, RTS-21, RTS-22 and RTS-24 are not required and request for their approval is hereby withdrawn.

Three signed and notarized originals and thirty-seven additional copies of this application are transmitted herewith. This application, consisting of the foregoing letter and enclosure hereto, is true and accurate to the best of my knowledge and belief.



IOWA ELECTRIC LIGHT AND POWER COMPANY

BY: Duane Arnold
Duane Arnold
Chairman of the Board
and President

6152

DA:st

cc: w/enclosure
C. Sandford
W. Paulson
J. Keppler
J. Newman

Sworn and subscribed to before me this 28 day of May, 1975.

Marjorie E. McDonald
Notary Public in and for the State of Iowa

Marjorie E. McDonald
NOTARY PUBLIC
State of Iowa
Commission Expires
September 30, 1976

6152

PROPOSED CHANGE RTS-23 TO DAEC TECHNICAL SPECIFICATIONS

I. Affected Technical Specifications

Appendix A of the Technical Specifications for the DAEC (DPR-49) provides as follows:

Table 4.2-F, Item B, p.3.2-31

Instrument Channel	Calibration Frequency	Instrument Check
Neutron Monitoring (When in Startup or Run Mode)	Once Per Day (APRM Gain Adjust)	Once Each Shift

II. Proposed Change in Technical Specifications

The licensees of DPR-49 propose changes in the Technical Specifications set forth in I above so that it will state as follows:

Instrument Channel	Calibration Frequency	Instrument Check
Neutron Monitoring	Once Per Day (APRM Gain Adjust When in Run Mode)	Once Each Shift (When in Startup or Run Mode)

III. Justification for Proposed Change

APRM gain adjustment is accomplished by setting APRM gains such that power level determined from the APRM's is greater than or equal to the power level determined from a reactor heat balance. The APRM gain is checked by STP 42F007 (APRM Gain Adjust Calibration) at least once per day while in Run Mode. At the low power levels encountered in Startup Mode ($\leq$ 12% reactor power) reactor heat balances are inherently of limited accuracy so, following a normal shutdown or scram, APRM gain adjust is left at its last setting until an accurate heat balance is again possible. The last STP 42F007 completed gives assurance that the APRM scram in Startup Mode will occur at $\leq$ 15% reactor power.

Proper APRM response is also dependent on correct LPRM detector response. STP 41A015 (LPRM Calibration) performed every 1000 effective full power hours or less insures adequate detector response. Following a refueling outage during which new LPRM detectors are installed, the gain of the new LPRM detectors and APRM's are set conservatively high until an accurate reactor heat balance and LPRM calibration can be performed (for instrument calibration procedures following installation see GEK-34701). Thus, trip functions of the APRM's are not adversely affected.

When in Startup Mode the SRM's and IRM's provide the primary means of monitoring neutron flux. Proper APRM response is insured by present test procedures. Therefore, daily APRM gain adjust when in Startup Mode is unnecessary and due to its inherent inaccuracy should be deleted.

IV. Review Procedures

This proposed change has been reviewed by the DAEC Operations Committee and Safety Committee which have found that this proposed change does not involve a significant hazards consideration.