AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 6183

FILE

FROM:	DATE OF DOC:	DATE REC'D	LTR	MEMO	RPT	OTHER
Iowa Electric Light & Power Company Cedar Rapids, Iowa 52406 C. W. Sanford	11-1-72	11-10-72	X			

TO:	ORIG	CC	OTHER	SENT AEC PDR	SENT LOCAL PDR
Mr. Boyd	1			X	X

CLASS: (U) PROP INFO	INPUT	NO CYS REC'D	DOCKET NO:
		1	50-331

DESCRIPTION:
Ltr re our 10-3-72 ltr.....furnishing info concerning new operating pressure & temperature limitations for the reactor coolant pressure boundary.....

ENCLOSURES:

DO NOT REMOVE

ACKNOWLEDGED

PLANT NAMES: Duane Arnold Energy Center

FOR ACTION/INFORMATION 11-10-72 AB

✓ BUTLER(L)	SCHWENCER(L)	SCHEMEL(L)	KNIGHTON(E)
W/9 Copies	W/ Copies	W/ Copies	W/ Copies
CLARK(L)	STOLZ(L)	ZIEMANN(L)	YOUNGBLOOD(E)
W/ Copies	W/ Copies	W/ Copies	W/ Copies
GOLLER(L)	VASSALLO(L)	CHITWOOD(FM)	REGAN(E)
W/ Copies	W/ Copies	W/ Copies	W/ Copies
KNIEL(L)	H. DENTON	DICKER(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

✓ REG FILE	TECH REVIEW	✓ VOLLMER	HARLESS	WADE	E
✓ AEC PDR	HENDRIE	DENTON		SHAFER	F & M
✓ OGC, ROOM P-506A	SCHROEDER	GRIMES	F & M	BROWN	E
✓ MUNTZING/STAFF	✓ MACCARY	GAMMILL	SMILEY	G. WILLIAMS	E
CASE	✓ LANGE	KASTNER	NUSSBAUMER	E. GOULBOURNE	L
GIAMBUSSO	✓ PAWLICKI	BALLARD		A/T IND	
✓ BOYD-L(BWR)	✓ SHAO	FINE	LIC ASST.	BRAITMAN	
DEYOUNG-L(PWR)	✓ KNUTH		SERVICE L	SALTZMAN	
SKOVHOLT-L	✓ STELLO	ENVIRO	MASON L		
P. COLLINS	✓ MOORE	MULLER	WILSON L	PLANS	
	✓ HOUSTON	DICKER	MAIGRET L	MCDONALD	
REG OPR	✓ TEDESCO	KNIGHTON	SMITH L	DUBE	
✓ FILE & REGION (2)	✓ LONG	YOUNGBLOOD	GEARIN L		
MORRIS	✓ LAINAS	PROJ LEADER	DIGGS L	INFO	
✓ STELLE	✓ BENAROYA		TEETS L	C. MILES	
		REGAN	LEE L		

EXTERNAL DISTRIBUTION

✓ 1-LOCAL PDR Cedar Rapids, Iowa
✓ 1-DTIE(ABERNATHY)
✓ 1-NSIC(BUCHANAN)
1-ASLB-YORE/SAYRE
WOODWARD/H. ST.
✓ 16-CYS ACRS ~~HOLDING~~ SENT TO LIC ASST MAIGRET ON 11-10-72

(1)(5)(9)-NATIONAL LAB'S
1-R. CARROLL-OC, GT-B227
1-R. CATLIN, E-256-GT
1-CONSULANT'S
NEWMARK/BLUME/AGABIAN

1-PDR-SAN/LA/NY
1-GERALD LELLOUCHE
BROOKHAVEN NAT. LAB
1-AGMED(WALTER KOESTER, Rm C-427, GT)
1-RD...MULLER...F-309GT

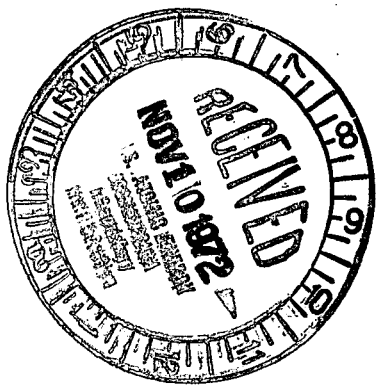
Regulatory File Cy.

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office
CEDAR RAPIDS, IOWA

November 1, 1972
IE-72-646

C. W. SANDFORD
VICE PRESIDENT



Mr. Roger S. Boyd
Assistant Director for
Boiling Water Reactors
Directorate of Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

50-331

Re: Duane Arnold Energy Center #1
Subject: Operating Pressure and Temperature Limitations
Files: A-104/A-116

Dear Mr. Boyd:

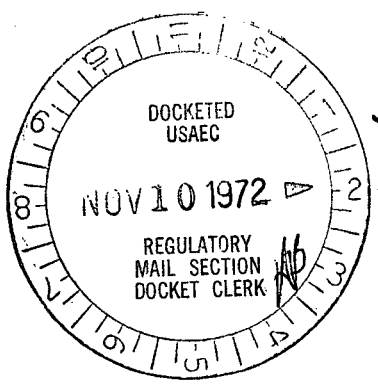
This is in response to your letter dated October 3, 1972 wherein you requested new operating pressure and temperature limitations for the reactor coolant pressure boundary.

Operating limits on reactor vessel pressure and temperature during normal heatup and cooldown, and during in-service hydrostatic testing, will be established using as a guide the Summer 1972 Addenda to Section III of the ASME Boilerrand Pressure Vessel Code, 1971 Edition. These new limits will be submitted by December 31, 1972.

These operating limits will assure that a large postulated surface flaw, having a depth of one-quarter of the material thickness, can be safely accommodated in regions of the vessel shell remote from discontinuities.

For the purpose of setting these operating limits the reference temperature, RT_{NDT}, of the vessel material will be determined from the impact test data taken in accordance with requirements of the Code to which this vessel is designed and manufactured.

If the dropweight NDT temperature is known, the reference temperature to be used will be the NDT temperature. If the dropweight NDT temperature is not known, the reference temperature to be used will be the temperature at which 30 ft.lb. of energy would be expected to occur on the basis of reported Charpy V notch test data. For materials in the core region of the vessel, the pressurization temperature will be increased by the shift of the reference temperature due to irradiation effects.



Very truly yours,

C. W. Sandford

C. W. Sandford
Vice President

JNW:CWS:hh
cc: D. Arnold
J. Newman

6183