

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO: J.G. KEPPLER

FROM: IOWA ELEC. LIGHT & POWER CO.
CEDAR RAPIDS, IOWA
G.G. HUNT

DATE OF DOCUMENT
10-18-76

DATE RECEIVED
10-26-76

LETTER
 ORIGINAL
 COPY

NOTORIZED
 UNCLASSIFIED

PROP INPUT FORM

NUMBER OF COPIES RECEIVED
30

DESCRIPTION
LTR. TRANS THE FOLLOWING.....

PLANT NAME: DUANE ARNOLD

ENCLOSURE
LICENSEE EVENT REPORT # 76-63, ON 10-7-76
CONCERNING ERRORS IN MCPR LIMITS

(30 CARBON SIGNED CYS. RECEIVED)
(2 PAGES)

ACKNOWLEDGED

DO NOT REMOVE

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED
SEND DIRECTLY TO KREGER/J. COLLINS

FOR ACTION/INFORMATION

SAB 10-26-76

<input checked="" type="checkbox"/> BRANCH CHIEF:	LEAR
W/3 CYS FOR ACTION	
<input checked="" type="checkbox"/> LIC. ASST.:	PARRISH
W/ CYS	
ACRS 16CYS RELAXING /SENT TO LA	

INTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> REG FILE				
<input checked="" type="checkbox"/> NRC PDR				
<input checked="" type="checkbox"/> I & E (2)				
<input checked="" type="checkbox"/> MIPC				
<input checked="" type="checkbox"/> SCHROEDER/IPPOLITO				
<input checked="" type="checkbox"/> HOUSTON				
<input checked="" type="checkbox"/> NOVAK/CHECK				
<input checked="" type="checkbox"/> GRIMES				
<input checked="" type="checkbox"/> CASE				
<input checked="" type="checkbox"/> FUHLER				
<input checked="" type="checkbox"/> HANAUER				
<input checked="" type="checkbox"/> TREDECO/MACCARY				
<input checked="" type="checkbox"/> EISENHAUF				
<input checked="" type="checkbox"/> BAHR				
<input checked="" type="checkbox"/> CHAO				
<input checked="" type="checkbox"/> VOLLMER/PUNCH				
<input checked="" type="checkbox"/> KREGER/J. COLLINS				

EXTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> TPDG: CEDAR RAPIDS, IOWA			
<input checked="" type="checkbox"/> TTC:			
<input checked="" type="checkbox"/> NSIC:			

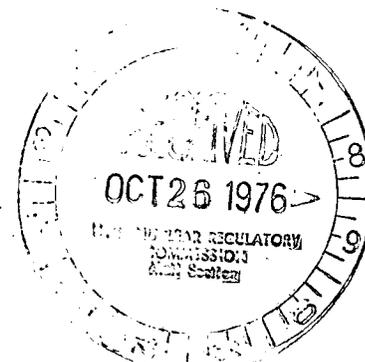
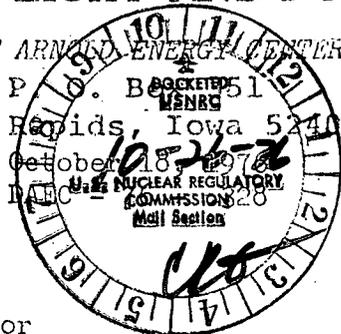
CONTROL NUMBER

10759

Regulatory Formal File Cy.
IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P.O. BOX 51
Cedar Rapids, Iowa 52406

October 18, 1976
U.S. NUCLEAR REGULATORY
COMMISSION
Mail Section



Mr. James G. Keppler, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission-Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Subject: Licensee Event Report No. 76-63
(14 day)

File: A-118a.

Dear Mr. Keppler:

In accordance with Appendix A to Operating License DRR-49,
Technical Specifications and Bases for Duane Arnold Energy Center and
Regulatory Guide 10.1, please find attached a copy of the subject
Licensee Event Report. (Total of 3 copies transmitted)

Very truly yours,

B.R. York/for

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

Docket 50-331

attachment

DLW/GGH/mg

cc: Director, Office of Inspection and Enforcement (40)
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Director, Management Information and Program Control (3)
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

10759

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Licensee Event Report Date: October 19, 1976

Reportable Occurrence No: RO 76-63

Description of Occurrence

NSSS vendor informed the licensee that the end of cycle core exposure at 100% power was now defined at 3600 MWD/T instead of 4800 MWD/T. This placed the core in a different exposure increment and made MCPR calculations, as determined by the plants process computer, inaccurate from the time the new exposure increment should have been entered.

Date & Time	Actual Value	Proper Limit	Assumed Limit	Bundle Exposure	Core Position	MW th	Ratio
<u>9/2/76</u>							
0430	1.3373	1.34	1.30		21-10	1502	1.002
<u>9/5/76</u>							
1230	1.3286	1.34	1.30		21-10	1480	1.008
<u>9/8-76</u>							
0828	1.3336	1.34	1.30		21-10	1454	1.005
0930	1.3346	1.34	1.30		21-10	1456	1.005
1630	1.3393	1.34	1.30		21-10	1443	1.0005
<u>9/24/76</u>							
0730	1.5565	1.563	1.523		27-10	886	1.004
0830	1.5614	1.562	1.522		27-10	887	1.0003

Cause of Occurrence

The NSSS vendor failed to inform the licensee of the correct definition of end of cycle as applied to Technical Specifications. Also the Technical Specifications are poorly written with regard to Table 3.12-2 in that no specific exposure numbers are given, only increments from end of cycle.

Corrective Action

The corrected MCPR limit was taken from Table 3.12-2 of Technical Specifications and is now in use and being adhered to.

D. Lanham

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406
October 18, 1976
DAEC - 76 - 328

Mr. James G. Keppler, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission-Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

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(14 day)

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Very truly yours,

BRC York/for
G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

Docket 50-331
attachment
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U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

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Washington, D.C. 20555

OCT 22 1976

LICENSEE EVENT REPORT

CONTROL BLOCK:

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(PLEASE PRINT ALL REQUIRED INFORMATION)

01	I	A	D	A	C	1	0	0	-	0	0	0	0	0	-	0	0	4	1	1	1	1	0	1	
7	8	9	14	15	25	26	30	31	32																
01	CONT			T	L																				
7	8	57	58	59	60	61	68	69	74	75															

EVENT DESCRIPTION

02	NSSS vendor informed licensee that end of cycle core exposure data was																							80
03	incorrect. This caused errors in MCPR limits as determined by the plant																							80
04	process computer. The miscalculation resulted in seven MCPR violations.																							60
05	Correct data is now in use and the reactor is being operated within																							80
06	proper core thermal parameter limits. (RO 76-63)																							80

07	Z	Z	C	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Y	
7	8	9	10	11	12	17	43	44	47	48																

CAUSE DESCRIPTION

08	NSSS vendor changed the definition of end of cycle core exposure. Curre																							80
09	nt exposure increment thus required new MCPR limits be adhered to as sp																							80
10	ecified in Technical Specification Table 3.12-2. Using the correct expo																							80

11	E	0	9	4	NA	D	NSSS Vendor Notification																	80			
7	8	9	10	12	13	44	45	46																			
12	Z	Z	NA										NA												80		
7	8	9	10	11	44	45																					

PERSONNEL EXPOSURES

13	0	0	0	Z	NA																		80					
7	8	9	11	12	13																							

PERSONNEL INJURIES

14	0	0	0	NA																		80						
7	8	9	11	12																								

OFFSITE CONSEQUENCES

15	NA																							80				
7	8	9																										

LOSS OR DAMAGE TO FACILITY

16	Z	NA																						80					
7	8	9	10																										

PUBLICITY

17	NA																							80					
7	8	9																											

ADDITIONAL FACTORS

18	Cause Description Cont. - sure increment, a review of operating records																							80					
7	8	9																											
19	has revealed the MCPR violations.																							80					

NAME: J. Van Sickle

PHONE: 319-851-5611

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

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IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406
October 8, 1976
DAEC - 76 - 317

Mr. James G. Keppler, Director
Office of Inspection and Enforcement-Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Subject: ^{50-331/} Prompt Notification of a
Reportable Occurrence

File: A-118a

Dear Mr. Keppler:

This letter, telecopied to your office, is intended to satisfy the requirement for prompt notification of a Reportable Occurrence in accordance with Specification 6.11.2.a of the Duane Arnold Energy Center Technical Specifications.

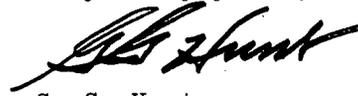
Technical Specification paragraph(s) violated:

Description Occurrence:

Licensee has been informed by NSSS vendor that data previously provided relative to end of cycle core exposure was incorrect. The incorrect core exposure data caused errors in core thermal parameter limits as determined by the plant process computer thus far in cycle two.

An analysis is in progress to determine if any core thermal parameter Technical Specification limits were violated as a result of the error. The results of the analysis will be included in the final report on this occurrence.

Very truly yours,



G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

GGH/DLW/mg
76-63

Director, Management Information and Program Control (2)
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

OCT 14 1976

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

P. O. Box 351

Cedar Rapids, Iowa 52406

October 8, 1976

DAEC - 76 - 317

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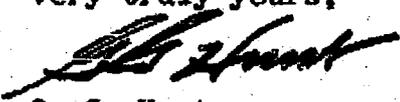
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U. S. Nuclear Regulatory Commission
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