

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

50-331

FILE NUMBER
INCIDENT REPORT

TO:
Mr. James G. Keppler

FROM:
Iowa Electric 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
Three signed copies

DESCRIPTION

Ltr. trans the following:

DO NOT REMOVE

ACKNOWLEDGED

(1-P)

PLANT NAME:

Duane Arnold

ENCLOSURE

Licensee Event Report (RO: 50-331/76-62) on 10/5/76 concerning errors that had been made in the LAPLHGR calculations for type 8D274 Fuel.

(3-P)

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

FOR ACTION/INFORMATION 10/27/76

RJL

<input checked="" type="checkbox"/> BRANCH CHIEF:	Lear
W/3 CYS FOR ACTION	
<input checked="" type="checkbox"/> LIC. ASST.:	Parrish
W/1 CYS	
ACRS 16 CYS HOLDING/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"/> BUTLER				
<input checked="" type="checkbox"/> HANAUER				
<input checked="" type="checkbox"/> TEDESCO/MACCARY				
<input checked="" type="checkbox"/> EISENHUT				
<input checked="" type="checkbox"/> BAER				
<input checked="" type="checkbox"/> SHAO				
<input checked="" type="checkbox"/> VOLLMER/FUNCH				
<input checked="" type="checkbox"/> KREGER/J. COLLINS				

EXTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> LPDR: Cedar Rapids, Iowa.	
<input checked="" type="checkbox"/> TTC:	
<input checked="" type="checkbox"/> NSIC:	

CONTROL NUMBER

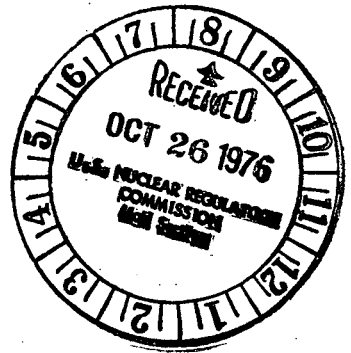
104
10774

36

IOWA ELECTRIC LIGHT AND POWER COMPANY



DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406
October 18, 1976
DAEC - 76 - 329



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. 76-62
(14 day)

File: A-118a

REGULATORY DOCKET FILE COPY

Dear Mr. Keppler:

In accordance with Appendix A to Operating License DPR-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)

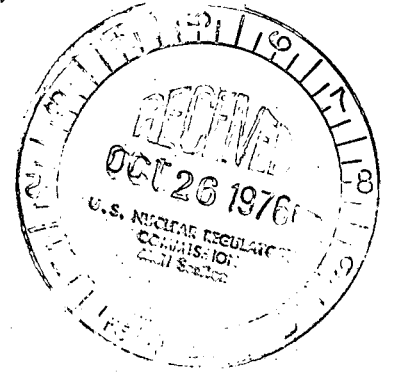
Very truly yours,

BR 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



LICENSEE EVENT REPORT

CONTROL BLOCK: [] [] [] [] [] [] [] []

[] BE PRINT ALL REQUIRED INFORMATION

LICENSEE NAME: I A D A C I LICENSE NUMBER: 0 0 - 0 0 0 0 0 0 - 0 0 LICENSE TYPE: 4 1 1 1 1 EVENT TYPE: 0 1

REPORT TYPE: T REPORT SOURCE: L CATEGORY: CONT DOCKET NUMBER: 0 5 0 - 0 3 3 1 EVENT DATE: 1 0 0 5 7 6 REPORT DATE: 1 0 1 9 7 6

EVENT DESCRIPTION

02 NSSS vendor informed licensee that errors had been made in the LAPLHGR calculations for type 8D274 fuel. The new limits are more limiting than those in effect since the 1976 refueling outage and apply to the period since then. Investigation revealed that MAPLHGR limits were violated on different occasions. The new limits were put in use upon receipt.

SYSTEM CODE: Z Z CAUSE CODE: C COMPONENT CODE: Z Z Z Z Z PRIME COMPONENT SUPPLIER: Z COMPONENT MANUFACTURER: Z 9 9 9 VIOLATION: Y

CAUSE DESCRIPTION

08 NSSS vendor recomputed LAPLHGR using new criteria. The calculation modified the MAPLHGR limit for the period since the 1976 refuel outage to a more limiting value which resulted in the violations.

11 FACILITY STATUS: E % POWER: 0 9 1 OTHER STATUS: NA METHOD OF DISCOVERY: D DISCOVERY DESCRIPTION: NSSS Vendor Notification

12 FORM OF ACTIVITY RELEASED: Z CONTENT OF RELEASE: Z AMOUNT OF ACTIVITY: NA LOCATION OF RELEASE: NA

13 PERSONNEL EXPOSURES: NUMBER: 0 0 0 TYPE: Z DESCRIPTION: NA

14 PERSONNEL INJURIES: NUMBER: 0 0 0 DESCRIPTION: NA

15 OFFSITE CONSEQUENCES: NA

16 LOSS OR DAMAGE TO FACILITY: TYPE: Z DESCRIPTION: NA

17 PUBLICITY: NA

18 ADDITIONAL FACTORS: Event Description cont. - (RO 76-62)

19 NAME: J. Van Sickle PHONE: 319-851-5611

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: 76-62

Description of Occurrence

Using new criteria, the NSSS vendor recomputed the limiting average planar linear heat generation rate for type 8D274 fuel. The new limits were applicable to all operations since the 1976 refuel outage and were more limiting than those previously in effect. This situation produced the following violations:

Date & Time	Actual Value	Proper Limit	Assumed Limit	Bundle Exposure	Core Position	MW th	Ratio
<u>9/5/76</u>							
1230	10.61	10.54	10.83	2735	12-36	1480	1.006
<u>10/3/76</u>							
1630	10.67	10.59	10.98	4777	35-22-12	1538	1.007
1730	10.71	10.59	10.98	4779	35-22-12	1543	1.01
1830	10.74	10.59	10.98	4780	35-22-12	1550	1.01
2130	10.70	10.59	10.98	4786	35-22-12	1549	1.01
<u>10/4/76</u>							
0430	10.70	10.59	10.98	4798	35-22-12	1536	1.03
0630	10.69	10.59	10.98	4801	35-22-12	1535	1.009
1830	10.64	10.60	10.99	4822	35-22-12	1531	1.03
2230	10.64	10.60	10.99	4829	35-22-12	1530	1.03
<u>10/5/76</u>							
0430	10.60	10.60	10.99	4839	35-22-12	1525	1.00
0530	10.61	10.60	10.99	4841	35-22-12	1526	1.0009
0630	10.60	10.60	10.99	4842	35-22-12	1526	1.00
1030	10.63	10.60	10.99	4849	35-22-12	1531	1.002

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data Cont.

Licensee Event Report Date: 10/19/76

Reportable Occurrence No: 76-62

Cause of Occurrence

NSSS vendor discovered errors in LAPLHGR calculation for cycle 2 while making cycle 3 calculations for DAEC.

Corrective Action

The new MAPLHGR limit was installed in the plant process computer and the plant is now being operated within the proper MAPLHGR limits.