

50-331

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

INCIDENT REPORT

TO: J.G. KEPPLER

FROM: IOWA ELEC LIGHT & PWR CO
CEDAR RAPIDS, IOWA
E.L. HAMMOND

DATE OF DOCUMENT

6/29/77

DATE RECEIVED

7/13/77

NUMBER OF COPIES RECEIVED

1 SIGNED

LETTER

NOTORIZED

PROP

INPUT FORM

ORIGINAL
 COPY

UNCLASSIFIED

DESCRIPTION

LICENSEE EVENT REPORT FOR R.O.# 77-53, ON 5/22/77
CONCERNING COLD WATER TRANSIENT CAUSING HIGH
FLUX REACTOR SCRAM.

(1P & 1P)

PLANT NAME: DUANE ARNOLD
SAB

ENCLOSURE

DO NOT REMOVE

ACKNOWLEDGED

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

FOR ACTION/INFORMATION

BRANCH CHIEF:
W/ 3 CYS FOR ACTION
LIC ASST.:

*Leah
Parish*

INTERNAL DISTRIBUTION

REG FILE
NRC PDR
I & E (2)
MIPC
SCHROEDER/IPPOLITO
HOUSTON
NOVAK/CHECK
GRIMES
KNIGHT
BUTLER
HANAUER
TEDESCO
EISENHUT
BAER
SHAO
VOLLMER/BUNCH
KREGER/ J. COLLINS
ROSA

EXTERNAL DISTRIBUTION

LPDR: *Cedar Rapids, Ia*
TIC:
NSIC:
ACRS (16) SENT AS CAT. B

CONTROL NUMBER

771940419

A04

877

Lankam

IOWA ELECTRIC LIGHT AND POWER COMPANY

File cy.

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406
June 29, 1977
DAEC-77 - 353



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. 77-53
(14 day)

File: A-118a

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,

Ellery L. Hammond

Ellery L. Hammond
Chief Engineer
Duane Arnold Energy Center

Docket 50-331

attachment

ELH/DLW/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

JUL 1 1977

771940419

LICENSEE EVENT REPORT

CONTROL BLOCK:

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(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME:

01	I	A	D	A	C	1
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 LICENSE NUMBER:

0	0	-	0	0	0	0	0	-	0	0
---	---	---	---	---	---	---	---	---	---	---

 LICENSE TYPE:

4	1	1	1	1
---	---	---	---	---

 EVENT TYPE:

0	1
---	---

REPORT TYPE:

01

 CATEGORY:

57	58
----	----

 REPORT SOURCE:

I

 DOCKET NUMBER:

0	5	0	-	0	3	3	1
---	---	---	---	---	---	---	---

 EVENT DATE:

0	5	2	2	7	7
---	---	---	---	---	---

 REPORT DATE:

0	6	2	8	7	7
---	---	---	---	---	---

EVENT DESCRIPTION

02 While manually regulating feedwater flow with block valves at low
power conditions, cold water transient caused high flux reactor scram.
04 The reactor period potentially could have been less than 5 seconds.
05 Exact magnitude could not be determined due to short duration of trans
06 ient. Reactor protection system performed as per design. Did not

SYSTEM CODE:

Z	Z
---	---

 CAUSE CODE:

F

 COMPONENT CODE:

Z	Z	Z	Z	Z	Z
---	---	---	---	---	---

 PRIME COMPONENT SUPPLIER:

Z

 COMPONENT MANUFACTURER:

Z	9	9	9
---	---	---	---

 VIOLATION:

N

CAUSE DESCRIPTION

08 Flux transient caused by cold water slug while opening feedwater block
09 valves to control reactor water level at low power and low feedwater fl
10 ow conditions.

FACILITY STATUS:

D

 % POWER:

0	0	0
---	---	---

 OTHER STATUS:

NA

 METHOD OF DISCOVERY:

D

 DISCOVERY DESCRIPTION:

NRC Inspection

FORM OF ACTIVITY RELEASED:

Z

 CONTENT OF RELEASE:

Z

 AMOUNT OF ACTIVITY:

NA

 LOCATION OF RELEASE:

NA

PERSONNEL EXPOSURES

13 NUMBER:

0	0	0
---	---	---

 TYPE:

Z

 DESCRIPTION:

NA

PERSONNEL INJURIES

14 NUMBER:

0	0	0
---	---	---

 DESCRIPTION:

NA

OFFSITE CONSEQUENCES

15

NA

LOSS OR DAMAGE TO FACILITY

16 TYPE:

Z

 DESCRIPTION:

NA

PUBLICITY

17

NA

ADDITIONAL FACTORS

18 Event Desc.(Cont.) - constitute a technical specification violation.

19 RO 77-53

NAME: D. Wilson PHONE: 319-851-5611

RECEIVED DOCUMENT
PROCESSING UNIT

1977 JUL 13 AM 10 46