

50-331

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

INCIDENT REPORT

TO: Mr. James G. Keppler

FROM: Iowa Elect Light & Power Co.
Cedar Rapids, Iowa 52406
Ellery L. Hammond

DATE OF DOCUMENT

11/10/77

DATE RECEIVED

11/25/77

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 COPY

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 UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

1 SIGNED

DESCRIPTION

PLANT NAME: DUANE ARNOLD
jcm 11/25/77

1p

ENCLOSURE

Licensee Event Report (RO 50-331-77-82) on 10/11/77 concerning, during normal operation "A" standby filter unit did not auto initiate as required on control building H & V low inlet temperature....

2p

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

1 ENCL.

FOR ACTION/INFORMATION

BRANCH CHIEF: *(4)*
~~W/S OPS FOR ACTION~~
~~LIC ASST:~~

LEAR

INTERNAL DISTRIBUTION

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- KREGER/ J. COLLINS
- ROSA
- L CROCKER*

EXTERNAL DISTRIBUTION

LPDR: *CEGAR. RAPIDS IA.*
TIC:
NSIC:
ACRS (16) SENT AS CAT. B

CONTROL NUMBER

773290220

NO 4

GD

D. Lankam

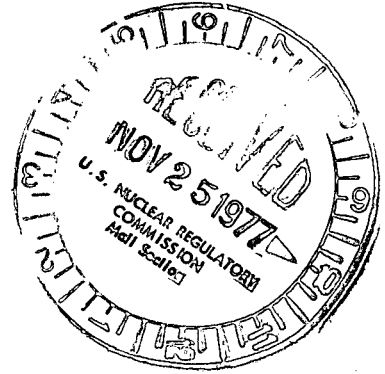
REGULATORY DOCKET FILE COPY

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406

November 10, 1977
DAEC-77 - 569

50-331



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. 77-82
(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,

David L. Minch for
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

NOV 14 1977

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LICENSEE EVENT REPORT

CONTROL BLOCK: _____ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 I A D A C 1 2 0 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 1 4 5
7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

CON'T
0 1 REPORT SOURCE 6 0 5 0 0 0 3 3 1 7 1 0 1 1 7 7 8 1 1 0 9 7 7 9
7 8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During normal operation "A" standby filter unit did not auto initiate
0 3 | as required on control building H and V low inlet temperature. Unit
0 4 | manually placed in operation until problem was corrected. Unit also
0 5 | would not have started on high radiation auto initiation signal. Ref.
0 6 | T.S. 3.10.A.3. Low inlet temperature due to preheat coil out of
0 7 | service for maintenance. No significant occurrence resulted.

0 8 | _____ 80

0 9 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
S G 11 E 12 E 13 I N S T R U 14 T 15 Z 16
7 8 9 10 11 12 13 14 15 16 17 18 19 20
17 LER/RO REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.
7 7 0 8 2 0 1 T 0
21 22 23 24 25 26 27 28 29 30 31 32
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPRD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
E 18 E 19 Z 20 Z 21 0 0 0 0 Y 23 N 24 A 25 G 0 8 0 26
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | Instrument drift. out-of-calibration flow indication prevented
1 1 | permissive start signal for "A" standby filter unit. Flow indication
1 2 | for "B" standby filter unit also found out-of-calibration. Both flow
1 3 | transmitters were recalibrated. Calibration to be checked monthly for
1 4 | three months to verify not a recurring problem.

1 5 FACILITY STATUS % POWER OTHER STATUS 30 METHOD OF DISCOVERY DISCOVERY DESCRIPTION 32
E 28 1 0 0 29 NA A 31 Operator Observation
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 6 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY 35 LOCATION OF RELEASE 36
Z 33 Z 34 NA NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 7 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 39
0 0 0 37 38
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 8 PERSONNEL INJURIES NUMBER DESCRIPTION 41
0 0 0 40 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 9 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION 43
Z 42 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

2 0 ISSUED PUBLICITY DESCRIPTION 45 NRC USE ONLY
N 44 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Docket Number 50-331

Licensee Event Report Date: 110977

Reportable Occurrence No: 77/82

Description of Occurrence

During routine plant operation it was observed that control building heating and ventilation "A" Standby Filter Unit did not start automatically when the inlet temperature dropped below 40°F. The low temperature in the inlet plenum resulted from low ambient temperatures outside the plant and an out-of-service intake preheat coil. The "A" SFU was manually placed in-service until the problem was corrected.

Cause of Occurrence

The cause of the occurrence was instrument drift. One of the permissive signals of the SFU's is a low flow signal (less than 800 cfm) from a flow switch located in the respective SFU train. The flow indication for the flow switch in the "A" SFU was found to be significantly out-of-calibration. The resultant false high flow indication prevented a permissive start signal for the "A" SFU. While recalibrating the flow switch for the "A" SFU, the instrument technician also determined that the same switch in the "B" SFU also was out-of-calibration.

Consequences of Occurrences

There were no significant consequences as a result of the occurrence. Initiation of the SFU's on low inlet temperature provides no significant safety function. However, the out-of-calibration flow switches also would have prevented starting of the SFU's on a high radiation initiation signal.

Corrective Action

The subject flowswitches in both SFU trains were recalibrated. In order to verify that the instrument drift is not a recurring problem, calibration of the flow indication for the switches will be checked monthly for a three month period.

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