

A 07/07/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL

50-331

REC: KEPPLER J G
NRC

ORG: HAMMOND E L
IA ELEC LIGHT & PWR

DOC DATE: 06/23/78
DATE RCVD: 07/06/78

DOCTYPE: LETTER
SUBJECT: NOTARIZED: NO

COPIES RECEIVED
LTR 1 ENCL 1

FORWARDING UPDATED LICENSEE EVENT REPT (RO 50-331/78-013) ON 02/22/77
CONCERNING DURING UNRELATED SURVEILLANCE TESTING, IT WAS NOTED THAT RHR
SUCTION SNUBBER MOUNTING BASE PLATE WAS PULLED LOOSE FROM THE WALL, DUE
APPARENT INADEQUATE CONCRETE ANCHOR INSTALLATION

PLANT NAME: DUANE ARNOLD

REVIEWER INITIAL: XJM
DISTRIBUTOR INITIAL: N

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

INCIDENT REPORTS
(DISTRIBUTION CODE A002)

FOR ACTION: BR CHIEF ORB#3 BC**W/4 ENCL

INTERNAL: REG FILE**W/ENCL
I & E**W/2 ENCL
I & C SYSTEMS BR**W/ENCL
NOVAK/CHECK**W/ENCL
AD FOR ENG**W/ENCL
HANAUER**W/ENCL
AD FOR SYS & PROJ**W/ENCL
ENGINEERING BR**W/ENCL
KREGER/J. COLLINS**W/ENCL
K SEYFRIT/IE**W/ENCL

NRC PDR**W/ENCL
MIPC**W/3 ENCL
EMERGENCY PLAN BR**W/ENCL
EEB**W/ENCL
PLANT SYSTEMS BR**W/ENCL
AD FOR PLANT SYSTEMS**W/ENCL
REACTOR SAFETY BR**W/ENCL
VOLLMER/BUNCH**W/ENCL
POWER SYS BR**W/ENCL

EXTERNAL: LPDR'S
CEDAR RAPIDS, IA**W/ENCL
TIC**W/ENCL
NSIC**W/ENCL
ACRS CAT B**W/16 ENCL

A/104

DISTRIBUTION: LTR 45 ENCL 45
SIZE: 1P+1P+1P

CONTROL NBR: 781870124

***** THE END *****

*** MASTER ROSTER ***
*** PUBLICATIONS ***

DIVISION	I-----	DISTRIBUTION	CODES	1 - 17	-----I
TITLE	I-----	DISTRIBUTION	QTY	1 - 17	-----I
CITY	I-----	DISTRIBUTION	CODES	18 - 34	-----I
CORP. TYPE	I-----	DISTRIBUTION	QTY	18 - 34	-----I
	I-----	DISTRIBUTION	CODES	35 - 50	-----I
	I-----	DISTRIBUTION	QTY	35 - 50	-----I

LICENSING DIVISION

DIRECTOR NJ 1
SAN DIEGO CA 92138AS COOLED FAST REACTOR DIV SN SR SF SE SM SP ST SO SA SG
MANAGER 1 1 1 1 1 1 1 1 1 1
SAN DIEGO CA 92138SN SR SF SE SM SP ST SO SA SG
SAN DIEGO CA 92138 1 1 1 1 1 1 1 1 1 1SN SR SF SE SM SP ST SO SA SG
SAN DIEGO CA 92138 1 1 1 1 1 1 1 1 1 1NUCLEAR ENERGY DIVISION RT 1
LIBRARIAN 1
SAN JOSE CA 92138NB 1
SAN DIEGO CA 92138CW 1
SAN DIEGO CA 92138CW 1
SAN DIEGO CA 92138CW 1
SAN DIEGO CA 92138CW 1
DIRECTOR, LWR FUEL FABRICATION 1
SAN DIEGO CA 92138NR 1
HEALTH PHYSICS DEPT 1
MANAGER 1
SAN DIEGO CA 92138

REGULATION DOCKET FILE COPY

D. L. Latham

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406
June 23, 1978
DAEC - 78 - 314

OFFICE OF INSPECTION AND ENFORCEMENT
U. S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

1978 JUL 6 AM 8 07

REGISTRATION

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

UPDATE REPORT - PREVIOUS
REPORT DATE 030377

Subject: Licensee Event Report No. 77-013
(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/nf

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

781870124

JUN 29 1978

A002
5/11

LICENSEE EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | I A D A C 1 | 200-00000000-000 | 34111111 | 4 | 5
7 8 9 14 15 25 26 30 57 CAT 58

CON'T

01 | REPORT SOURCE | 16015000331 | 7022277 | 8062678 | 9
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | During unrelated surveillance testing, it was noted that an RHR suction
03 | snubber mounting base plate was pulled loose from the wall. As a result
04 | an inspection of snubbers outside primary containment was initiated. Dur
05 | ing the inspection, a total of 8 safety related snubbers were identified
06 | with loose anchors or anchor bolts. Tech. Spec. Table 4.6-3.
07 |
08 |

09 | SYSTEM CODE | CAUSE CODE | CAUSE SUBCODE | COMPONENT CODE | COMP. SUBCODE | VALVE SUBCODE
7 8 9 10 11 12 13 14 15 16
C F 11 B 12 C 13 S U P P O R T 14 B 15 Z 16
17 | LER/RO REPORT NUMBER | EVENT YEAR | SEQUENTIAL REPORT NO. | OCCURRENCE CODE | REPORT TYPE | REVISION NO.
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
7 7 0 1 3 0 1 T 1
18 | ACTION TAKEN | FUTURE ACTION | EFFECT ON PLANT | SHUTDOWN METHOD | HOURS | ATTACHMENT SUBMITTED | NPD-4 FORM SUB. | PRIME COMP. SUPPLIER | COMPONENT MANUFACTURER
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
D 18 Z 19 Z 20 Z 21 0 0 0 0 Y 23 N 24 A 25 Z 9 9 9 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | Apparent cause was inadequate concrete anchor installation during initia
11 | l construction. Anchors were repaired and bolts tightened. Special inves
12 | tigation including visual inspection of accessible hangers, restraints.
13 | and snubbers was performed. Several discrepancies noted and corrected. A
14 | nalysis verified anchors adequate when properly installed.

15 | FACILITY STATUS | % POWER | OTHER STATUS | METHOD OF DISCOVERY | DISCOVERY DESCRIPTION
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
E 28 0 6 4 29 NA C 31 Special Inspection
16 | ACTIVITY CONTENT | AMOUNT OF ACTIVITY | LOCATION OF RELEASE
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
Z 33 Z 34 NA NA
17 | PERSONNEL EXPOSURES | TYPE | DESCRIPTION
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
d d o 37 NA
18 | PERSONNEL INJURIES | TYPE | DESCRIPTION
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
o o o 40 NA
19 | LOSS OF OR DAMAGE TO FACILITY | TYPE | DESCRIPTION
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
Z 42 NA
20 | PUBLICITY | TYPE | DESCRIPTION
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
N 44 NA

NAME OF PREPARER D. Wilson

PHONE: 319-851-5611

NRC USE ONLY

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data
050-0331

Licensee Event Report Date: June 26, 1978

Reportable Occurrence No: 77-013

Description of Occurrence:

During unrelated surveillance testing, it was noted that an RHR suction snubber mounting base plate was pulled loose from the wall. As a result, an inspection of snubbers outside of primary containment was initiated. The results of the inspection was as follows:

Concrete anchors loose or missing

1. HBB-24-SS-229, S/D cooling suction
2. HBB-24-SS-228, (2) RHR S/D cooling suction
3. GBB-4-SS-211, RHR Loop "A" discharge

Concrete anchor bolts loose

1. GBB-4-SS-213, RHR loop "A" discharge
2. GBB-4-SS-210, RHR loop "A" discharge
3. GBB-3-SS-238, RHR loop "B" discharge
4. HBB-2-SS-7, "A" core spray pump suction

Cause

The apparent cause of the occurrence was inadequate installation of the snubber mounting concrete anchors.

Corrective Action

All of the above concrete anchors were repaired and the bolts were retightened.

An investigation was performed to verify the adequacy of concrete expansion anchors. The investigation included a visual inspection of all accessible hangers, restraints and shock suppressor mountings in the RHR, HPCI and RCIC systems. Based on the results of the visual inspection, a selected number of mountings were tested for proper torque on the concrete anchors. Several discrepancies were identified and corrected. The overall conclusion of the investigation was that the concrete expansion anchors offer more than adequate design margins with respect to pull-out and shear capabilities of the installation technique called for by each specific manufacturer is adhered to. A selected percentage of the anchors were retested during the 1978 outage with satisfactory results.