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IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER P. O. Box 351 Cedar Rapids, Iowa 52406 October 11, 1977

DAEC-77 - 511

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. 77-78

(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

Chief Engineer Duane Arnold Energy Center

ELH/JVS/ma

Docket 50-331

attachment

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



	CONTROL BLOCK: (PLEASE PRINT ALL REQUIRED INFORM	IATION
01 7 (LICENSEE NUMBER LICENSE EVENT TYPE TYPE TYPE I A D A C 1 0 0 0 0 0 0 0 0 4 1 1 1 1 0 1	
01 7	CATEGORY REPORT REPORT DOCKET NUMBER EVENT DATE REPORT DATE CON'T	e 7 7 80
02	/ 	
7 8 03		80
7 8 04	g g ng had been overstressed. The determination was based on calculated pip	80
7 8 05	e movement from observations of pipe insulation damage. ND examination	80
7 8 06	of the affected line sections revealed no apparent defects. (RO 77–78)	80
7 8 07 7 8	SYSTEM CAUSE COMPONENT CODE COMPONENT COMPONENT SUPPLIER MANUFACTURER VIOLATION COMPONENT SUPPLIER MANUFACTURER VIOLATION SYSTEM CAUSE COMPONENT COMPONENT COMPONENT SUPPLIER MANUFACTURER VIOLATION SYSTEM CAUSE COMPONENT COMPONENT COMPONENT SUPPLIER MANUFACTURER VIOLATION 1	80
08	CAUSE DESCRIPTION This event apparently resulted from a hydraulic shock in the HPCI ste	1
7. 8 09		80
10	exchanger steam condensing supply line is tied to the HPCI steam supp	80
7 8	FACILITY STATUS % POWER OTHER STATUS DISCOVERY DISCOVERY DESCRIPTION E 0 9 0 NA C Special Inspection 9 10 12 13 44 45 46	80
12 7 8	FORM OF ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE Z Z NA NA	80
13	NUMBER TYPE DESCRIPTION NA	
7 8 14 7 8	9 11 12 13 PERSONNEL INJURIES NUMBER DESCRIPTION [0 0 0 0]	80
15 7 8	OFFSITE CONSEQUENCES NA 9	
	LOSS OR DAMAGE TO FACILITY TYPE DESCRIPTION	80
16 7 8	Z	80
17	PUBLICITY NA	J.
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18 7 8	ADDITIONAL FACTORS Cause Desc. Cont ly line.	
19		80 I
7 8	9 D. Wilson PHONE 319-851-5611	80

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company LICENSEE EVENT REPORT-Supplemental Data

Licensee Event Report Date: 101077

Reportable Occurrence No: 77-78

DESCRIPTION OF OCCURRENCE

While conducting an unrelated engineering review of seismic snubber anchors, it was determined that a short section of RHR heat exchanger inlet piping had been overstressed. This determination was based on calculated pipe movement indicated by observed piping insulation damage. ND examinations revealed no apparent defects in the affected piping.

CAUSE OF OCCURRENCE

The cause of this occurrence could not be positively identified. The most probable explanation is that the movement and resulting stress occurred during a hydraulic shock to the HPCI steam supply piping which occurred on 6/11/74. This event was documented in AO 74-11. The RHR heat exchanger steam inlet piping (steam condensing mode) is tied to the HPCI steam supply line and thus is affected by movement in this line. No shocks have occurred in the HPCI steam line since 6/11/74 which would have produced the piping insulation damage noted.

CORRECTIVE ACTION

All areas that were calculated to have been overstressed were inspected by non-destructive examination with no apparent defects found. See also the corrective actions noted in AO Report 74-11.

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