MBB

Iowa Electric Light and Power Company
March 24, 1980
DAEC - 80 - 162

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

Subject: Licensee Event Report No. 80-010
(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,

Daniel L. Mineck
Chief Engineer
Duane Arnold Energy Center

Docket 50-331

attachment
DLM/DWT/n

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

A002
S.1/1

MAR 27 1980

8003310219

NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | LICENSEE CODE: I A D A C 1 (2) | LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 (3) | LICENSE TYPE: 4 1 1 1 1 (4) | CAT (5)

CON'T 01 | REPORT SOURCE: L (6) | DOCKET NUMBER: 0 5 0 0 0 3 3 1 (7) | EVENT DATE: 0 3 1 0 8 0 (8) | REPORT DATE: 0 3 2 4 8 0 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During annual surveillance testing of relief valves, three relief valves
03 were found to have out of specification as-found setpoints. One R/V was
04 2 psi low, one R/V 20 psi high, and one R/V 12 psi high. The setpoint
05 requirements are listed in T.S. section 2.2.1.B. One similar event re-
06 port was submitted (RO Report 78-18) since installation of the Target
07 Rock relief valves in 1977. The out of spec. setpoints would not degrade
08 the vessel overpressure protection system capability.

	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
09	S F (11)	E (12)	B (13)	V A L V E X (14)	P (15)	B (16)

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
8 0	—	0 1 0	/	0 1	T	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
B (18)	Z (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	N (24)	L (25)	T 0 2 0 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Cause unknown. Licensee and test facility representative investigations
11 determined that dirt and moisture found on the valve seats were contribu
12 ting factors but did not produce a definitive cause for the out of speci
13 fication setpoints. The pilot assemblies were cleaned and reworked as
14 required and retested satisfactorily.

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
15	H (28)	0 0 0 (29)	NA	B (31)	Surveillance Test

	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
16	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION (39)
17	0 0 0 (37)	Z (38)	NA

PERSONNEL INJURIES

	NUMBER	DESCRIPTION (41)
18	0 0 0 (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

	TYPE	DESCRIPTION
19	Z (42)	NA

PUBLICITY

	ISSUED	DESCRIPTION (45)
20	N (44)	NA

NRC USE ONLY

NAME OF PREPARER D. W. Tooker PHONE: 319-851-5611

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Docket No. 050-0331

Licensee Event Report Date: March 24, 1980

Reportable Occurrence No: 80-010

Event Description:

During surveillance testing of pressure relief valves, three of the main steam relief valves were found to have out of specification as-found setpoints. All six main steam relief valves and one main steam safety relief valve were tested. The following is a tabulation of the test results for those relief valves with out of specification as-found setpoints:

Valve Number	Pilot Assembly Serial Number	Required Setpoint	As-Found Setpoint
PSV-4400	176	1110 ± 11 PSI	1097 PSI
PSV-4407	199	1100 ± 11 PSI	1123 PSI
PSV-4405	141	1080 ± 11 PSI	1111 PSI

Also while testing the main steam relief valves, second stage seat stellite material to base material separation was discovered on one of the three valves which had in specification as-found setpoints (pilot assembly serial number 226). The second stage seat of valve #226 was removed and a new stellite insert was installed. The valve was cleaned, reassembled, and subsequently tested satisfactorily.

The testing was performed at Wyle Laboratories in Huntsville, Alabama while DAEC was in a normal refueling outage. One similar event report has been submitted (See RO Report 78-18) since the installation of Target Rock Model 67F-6x10 pressure relief valves in 1977.

Cause Description

Cause unknown. While dirt and moisture found on the valve seats are thought to be contributing factors, licensee and test facility representation investigations did not produce a definitive cause for the out of specification setpoints.

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Docket No. 050-0331

Licensee Event Report Date: March 24, 1980

Reportable Occurrence No: 80-010

Corrective Action

Corrective action taken for the three valves found with out of specification setpoints were as follows:

Relief Valve Serials #176 and #141	The pilot assembly was disassembled and inspected. No cause for the out of specification setpoints was positively identified, however, dirt found on the seating surfaces is a likely contributing factor. The pilot and second stage seats were lapped. All valve parts were cleaned, the pilot assembly was reassembled, and the valves were subsequently satisfactorily tested.
Relief Valve Serial #199	The pilot assembly was disassembled and inspected. No cause for the out of specification setpoint was positively identified. The valve marginally passed during subsequent testing but the valve was reworked. The pilot and second stage seats were lapped and all valve parts were cleaned. The pilot assembly was reassembled and tested satisfactorily.