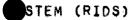
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RAGER, M.S.

Iowa Electric Light & Power Co.

RECIP.NAME

RECIPIENT AFFILIATION

Region 3, Chicago, Office of the Director

SUBJECT: LER 81-014/017-0:on 810409, relief & safety valves found to be out of spec setpoint. Cause unknown. Relief valve pilot assemblies were cleaned & reworked, Safety valves will be disassembled & reworked.

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A0/I

Iowa Electric Light and Power Company

April 23, 1981 DAEC-81-257

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. 81-014

(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/MSR/pl

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

U. S. Nuclear Regulatory Commission c/o Document Management Branch Washington, D. C. 20555

NRC Resident Inspector - DAEC

PO/I

(2-777	LICENSEE EVENT REPORT
X ·	CONTROL BLOCK: [] [PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION]
0 1	TADACTE CODE 14 2 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CON'T	SOURCE 60 61 OCCKET NUMBER 64 69 EVENT DATE 74 75 REPORT DATE 80
0 2	EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) [During annual testing of relief (R/V) and safety (S/V) valves, four R/Vs
0 3	were found with out-of-spec as found setpoints. One S/V initially lifted
04	Lat an out of tolerance value and began leaking after testing. One R/V was
0 5	13 PSI high, one R/V was 3 PSI low, and two R/Vs were 9 PSI low. T.S.2.2.1
06	[lists required setpoints. Out of spec setpoints would not degrade vessel
0 7	Loverpressure protection sys capability. Two prev reports(R.O. 80-10 and 7
08	8-18) have been submitted since 1977 valve installation.
09	CODE SUBCODE COMPONENT CODE SUBCODE SUBCODE S F 10 E 12 B 13 V A L V E X 14 P 15 B 16 9 10 11 12 12 13 13 PREVISION
tq. ^{4*}	CODE TYPE NO.
	CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
1 0	lout of specification setpoints. R/V pilot assemblies were cleaned and re
112	the base required and notested satisfactorily S/V will be disassembled
1 3	land reworked prior to retesting. R/V are Target Rock Type 67F-6X10. S/V
- 114	lis a Dresser Industries model 3800 spring safety valve.
7 8	FACILITY STATUS THER STATUS 30 METHOD OF DISCOVERY DESCRIPTION 32
	9 10 12 13 44 46 46 AG ACTIVITY CONTENT (36)
1 6 7 8	Z 3 Z A NA NA AS
1 7	O O O O O O O O O O O O O O O O O O O
1 A 8	NUMBER DESCRIPTION (41) O O O O O O O O O O O O O O O O O O O
1 9	TYPE CESCRIPTION Z 42 NA 9 10
2 0	ISSUED DESCRIPTION (45) NA
7 24.	NAME OF PREPARER Matthew S. Rager 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: April 23, 1981

Reportable Occurrence No: 81-014

Event Description

During annual surveillance testing of safety/relief valves, four relief valves were found to have out of specification as-found setpoints. Additionally, one safety valve initially lifted at an out of tolerance value and was leaking at the completion of testing. All six main steam relief valves and one safety valve were tested. The following is a tabulation of as-found test results:

<u>Valve</u>	Serial No.	Required Setpoint	As-Found Setpoint
S/V	BM 8491	1240 ± 12 PSI	1310 PSI
'R/V	189	1100 ± 11 PSI	1080 PSI
R/V	218	1080 ± 11 PSI	1094 PSI
R/V	226	1090 ± 11 PSI	1076 PSI
R/V	227	1110 ± 11 PSI	1090 PSI
R/V	199	1100 ± 11 PSI	1100 PSI
R/V	176	1110 ± 11 PSI	1119 PSI

The safety valve initially lifted at 1310 PSI. Subsequent tests found the valve to lift at 1253 PSI (1PSI out-of-tolerance) and then the valve lifted within Technical Specifications 2.2.1.C limits four consecutive times.

Although four relief valves were found to lift at setpoints in excess of their nameplate setpoint tolerances, there was one valve with an as-found setpoint within tolerance for each of the Technical Specifications required relief valve settings.

There have been two previous event reports submitted (See RO 78-18 and 80-10) since the installation of Target Rock model 67F-6x10 pressure relief valves in 1977. The testing was performed at Wyle Laboratories in Huntsville, Alabama while DAEC was in a normal refueling outage.

Cause Description

Cause unknown. Test facility personnel were unable to determine a definitive cause for the out-of-tolerance setpoints.

DUANE ARNOLD ENERGY CENTER Iowa Electric Light and Power Company Licensee Event Report - Supplemental Data

Docket No. 050-0331

Licensee Event Report Date: April 23, 1981

Reportable Occurrence No: 81-014

Corrective Action

The relief valves were disassembled, cleaned and reworked. The valves were subsequently retested and performed satisfactorily. The relief valves are Target Rock 67F-6X10 Safety Relief Valves.

The safety valve will be disassembled and reworked prior to retesting. The safety valve is a Dresser Industries model 3800 Spring Safety Valve. The surveillance test frequency will be increased such that this valve will again be tested during the 1982 refueling outage.