REGULATORY ORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8003040537 DOC.DATE: 80/02/28 NOTARIZED: NO DOCKET # FACIL:50=331 Duane Arnold Energy Center, Iowa Electric Light & Pow 05000331 AUTH.NAME AUTHOR AFFILIATION

ZIEMMERMAN, J.C. Iowa Electric Light & Power Co.

RECIP.NAME RECIPIENT AFFILIATION

Region 3, Chicago, Office of the Director

SUBJECT: LER 80-004/01T-0:on 800214, during scheduled leak rate testing, MSIVs 4412, 4413, 4416, 4418, 4419, 4420 & 4421 found w/seat leakage on inboard & combined seat & stem leakage on outboard valves exceeding Tech Spec. Cause indeterminate.

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ACTION:	RECIPIENT ID CODE/NAME 05 BC ORB#3	COPIES LTTR E		RECIPIENT ID CODE/NAME	COPIE LTTR E	
INTERNAL:	OT REG FILE OP BETTER 14 TA/EDO 16 EEB 18 PLANT SYS BR 20 AD PLANT SYS 23 ENGR BR 25 PWR SYS BR 27 OPERA LIC BR 29 AUX SYS BR AEOD HANAUER, S. JORDAN, E./IE	1 2 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02 NRC PDR 11 MPA 15 NOVAK/KNIEL 17 AD FOR ENGR 19 I&C SYS BR 22 REAC SAFT BR 24 KREGER 26 AD/SITE ANAL 28 ACDENT ANLYS AD/ORP-DOR DOUG MAY-TERA IRELAND,R.	1 3 1 1 1 1 1 1 1 1 1 3	1 3 1 1 1 1 1 1 1 1 1 1 1 3
EXTERNAL:	03 LPDR 29 ACRS	1 16	1 16	04 NSIC	1	1

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LICENSEE EVENT REPORT

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•	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 3 4 1 1 1 1 1 5 5 CAT 58
O 1 8	SOURCE 60 61 DOCKET NUMBER 69 69 EVENT DATE 74 8 0 8 10 2 2 8 8 0 9 EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
0 2	During scheduled leak rate testing, MSIV's 4412, 4413, 4416, 4418, 4419.
0 3	4420 and 4421 were found to have seat leakage on the inboard and combine
0 4	d seat and stem leakage on the outboard valves in excess of the 11.5 SCF
0 5	L H limit specified in T.S.4.7.A.2.C.3. The reactor is currently shutdown
0 6	for refueling. MSIV maintenance is presently underway. There has been
0 7	one previous similar report (RO 76-17 dated 3-23-76).
0 8	
0 9	SYSTEM CAUSE CAUSE COMPONENT CODE SUBCODE SUBC
	LER/RO EVENT YEAR SEQUENTIAL REPORT NO. 17 NUMBER 21 22 23 24 26 27 28 29 30 31 31 32
٠.	ACTION FUTURE ON PLANT SHUTDOWN HOURS 22 ATTACHMENT NORM SUB- PRIME COMP. COMPONENT MANUFACTURER
10	The cause of valve seat leakage is indeterminate. Packing leakage was th
	Le result of stem galling caused by lantern ring and junk ring interf
1 2	erence. Lantern ring to be removed, stems replaced as required, a radius
1 3	cut on each junk ring and packing replaced. The stellite seats will be
14	Llapped as required.
_	STATUS SPOWER OTHER STATUS 30 METHOD OF DISCOVERY DESCRIPTION 32 NA B 31 Surveillance Test
	CTIVITY CONTENT LEASED OF RELEASE AMOUNT OF ACTIVITY 35 LOCATION OF RELEASE 36 NA NA
17	9 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (39) 0 0 0 (37) Z (38) NA
7 8	9 PERSONNEL INJURIES 13 80 NUMBER DESCRIPTION 41 NA
7 8 1 9 7 8	So of the second
20	PUBLICITY SSUED DESCRIPTION 45 NRC USE ONLY
•	J. C. Zimmerman NAME OF PREPARER

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Docket No. 050-0331

Licensee Event Report Date:

-022880

Reportable Occurrence No:

80-004

Event Description

During the performance of scheduled leak rate testing, inboard MSIV's 4412, 4418 and 4420 were found to have seat leakage in excess of the 11.5 SCFH limit specified in T.S.4.7.A.2.C.3. In addition, outboard MSIV's 4413, 4416, 4419, and 4421 were found to have combined packing and seal leakage in excess of the 11.5 SCFH Technical Specification limit.

Cause Description

The cause of the valve seat leakage is indeterminate. The packing leakage has been determined to be the result of stem galling caused by lantern ring and junk ring interference. The valves are Rockwell Manufacturing 20 inch pneumatically operated MSIV's. Each valve is rated at 1250 psi and 575°F.

Corrective Action

It is intended that the lantern rings be removed, stems replaced as necessary, a radius cut on each junk ring and the packing replaced as needed for each MSIV. The stellite valve seats will be lapped as required.

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