



Nebraska Public Power District

COOPER NUCLEAR STATION
P.O. BOX 9, BROWNVILLE, NEBRASKA 68321
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CNSS948312

September 19, 1994

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Dear Sir:

Cooper Nuclear Station Licensee Event Report 94-018 is forwarded as an attachment to this letter.

Sincerely,

R. L. Gardner
Plant Manager

RLG/nc

Attachment

cc: L. J. Callan
G. R. Horn
J. H. Mueller
S. J. Jobe
R. A. Sessoms
R. E. Wilbur
D. A. Whitman
INPO Records Center
NRC Resident Inspector
R. J. Singer
CNS Training
CNS Quality Assurance

9409260072 940919
PDR ADDCK 05000298
PDR

Powerful Pride in Nebraska

JE28

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)
COOPER NUCLEAR STATIONDOCKET NUMBER (2)
05000298PAGE (3)
1 OF 1TITLE (4) Reactor Core Isolation Cooling System Trip and Throttle Valve Design Deficiency
Due to the Reset Motor Being Powered by AC Instead of DC

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
08	20	94	94	-- 018 --	00	09	19	94	FACILITY NAME	DOCKET NUMBER

OPERATING MODE (9)	N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)				
POWER LEVEL (10)	O	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)	
		20.405(a)(1)(i)	50.36(c)(1)	X 50.73(a)(2)(v)	73.71(c)	
		20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER	
		20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	(Specify in Abstract below and in Text, NRC Form 366A)	
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)		
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)		

LICENSEE CONTACT FOR THIS LER (12)

NAME

Donald L. Reeves, Jr.

TELEPHONE NUMBER (Include Area Code)

(402) 825-3811

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

X YES
(If yes, complete EXPECTED SUBMISSION DATE).

NO

EXPECTED SUBMISSION DATE (15)

MONTH DAY YEAR
10 14 94

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

While reviewing surveillance test requirements associated with the Reactor Core Isolation Cooling (RCIC) System, the reset function for RCIC-MOV-M014, the RCIC Turbine Trip and Throttle Valve, was noted to be powered by an AC, not a DC motor. In the event of a RCIC System trip on high reactor vessel water level, RCIC-MOV-M014 will trip closed and automatically reset upon full closure of RCIC-MOV-M0131, the Steam Supply to the RCIC Turbine. For trips other than overspeed or local manual, valve reset from the Control Room is performed.

The RCIC System is designed to operate automatically in the short term; i.e., 4 to 6 hours. The design basis of the RCIC System is that it shall be independent of AC power and shall depend only on DC power for short term operation. In the event of a Station Blackout (SBO) in which all offsite and onsite AC power is lost for a period of up to 4 hours, RCIC is required to function to provide residual heat removal. However, due to the reset motor being powered by AC, neither automatic nor remote manual reset of the valve would have been possible. Instead, local operator action would have been required. No guidance for this function is included in the SBO response procedure.

To resolve this apparent design deficiency, a design change is being implemented to install a DC motor in place of the AC motor. This action will be completed prior to resuming power operation. A supplement to this LER will also be submitted prior to startup providing details regarding the root cause and corrective actions taken.