

Nebraska Public Power District

COOPER NUCLEAR STATION P.O. BOX 98, BROWNVILLE, NEBRASKA 68321 TELEPHONE (402)825-3811 FAX (402)825-5205

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NLS960032

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February 12, 1996

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555-0001

Dear Sir:

Cooper Nuclear Station Licensee Event Report 95-022, Supplement 1 is forwarded as an attachment to this letter.

Sincerely,

J. T. Herron

Plant Manager

/cct

Attachment

cc: Regional Administrator USNRC - Region IV

> Senior Project Manager USNRC - NRR Project Directorate IV-1

Senior Resident Inspector USNRC

NPG Distribution

INPO Records Center

W. Turnbull MidAmerica Energy

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COOPER	RNUC	LEAR	STATION							050	000298		1	OF 4
			100 Million and Allanda				-		1			<u> </u>		
Reactor	Trip \$	Signal,	ESF Actua	ation, and	Loss of	Shutdo	wn C	ooling	During	g Mainte	enance Acti	vity		
EVENT	DATE	(5)	LER	NUMBER (6)	REPO	RTDAT	E (7)		0	THER FACILIT	IES INVOI	VED (8)
MONTH	DAY	YEAR	YEAR	EQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILIT	Y NAME		0	OCKET N	JMBER
12	13	95	95	022	01	02	12	96	FACILIT	Y NAME		C	DOCKET NUMBER	
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			20.220	3(a)(2)(iii)		50.36(c)(1)			50.73(a	i)(2)(v)	S	pecify in In NRC	Abstract b
			20.220	3(a)(2)(iv)		50.36(c)(2)			50.73(a	1)(2)(vii)			
CAUSE	SY	STEM	COMPONENT	MANUFACT	URER REF	PORTABLE NPRDS	TVENT	CAU	SE	SYSTEM	COMPONENT	MANUFA	CTURER	REPORTA TO NPRI
								1						
YES (If yes,	, comp	lete EXI	PECTED SUB	AL REPORT	TE).	0 (14)	XNC)		SUBI DA	ECTED MISSION TE (15)	MONTH	DAY	YE
At 1658 level sig Vessel V loss of t Containr (Group 3 and 6 is of appro Previous level ins completi	B CST mal w Water the Sh ment 3) wa colatio Sama sly, a strume ed rep ormat	, on D as rec Level nutdov and in s isola ns we tely th work entatio placing	ecember 1 eived due instrument vn Cooling itiation of 1 ted when 1 re reset, an ree degree item was p n reference the gaske this backfi	a, 1995, to Instrum ation. The mode of the Stand the event at 172 s Fahrenh lanned to be leg. Op it and Insi Il procedu	while in nent and ne low le the Resi by Gas occurred 4, Shuto eit. replace ening th trument ire, the i	cold sh Contro evel sign dual He. Treatme d. At 1 down Co the con e flange and Con	techinal res at Ren nt Sys 706, 1 poling ndensi resul ntrol p pow sig	vn for nicians ulted i noval s stem (f the rea was r ng pot ted in personi anal wi	a refui s backt n a rei Systen Group actor ti estore : flange drainin nel we as rece	(16) eling ou filling a actor tri n (Group 6). The rip signa d after a d after a e gaske ng the c ire told t eived.	tage, a read common va p signal, iso o 2), and iso a Reactor W al was reset a reactor wa t in the corr ondensing to backfill th	ctor ves plation a olation of vater Cle t, at 170 ater terr respond pot. Th he sensi	sel low of for F and ten of the eanup 07, Gro operaturn ing rea e mecing line	v water Reactor Seconda System Dups 2,3 ire incre ctor ves hanic 2. Durin

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NRC FORM 366A ·		U.S. NUCLEAR REGULATORY COMMISSION
	LICENSEE EVENT REPORT	(LER)

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1 4. 1	CONTROMINON	

FACILITY NAME (1)	DOCKET	1	LER NUMBER (6)	-	PAGE (3)
COOPER NUCLEAR STATION		YEAR	SEQUENTIAL	REVISION			
COOPER NOCLEAR STATION	05000298	95	022	01	2	OF	4

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

PLANT CONDITIONS

Cooper Nuclear Station (CNS) was in a cold shutdown condition for refueling outage, RE16. The reactor vessel was reassembled and heat removal was being accomplished with the shutdown cooling mode of the Residual Heat Removal System.

EVENT DESCRIPTION

At 1100 CST on December 12, 1995, Engineering identified the potential for an improper gasket to be installed on the one inch reactor pressure vessel head condensing pot line flange. A maintenance work request (MWR) package was completed prior to the next day shift in order to replace the flange gasket and the Shift Supervisor signed for authorization to commence work at 1418 on December 13, 1995.

At 1529, the control room staff noticed indication of vessel level on the shutdown and steam nozzle range reactor vessel level instruments, NBI-LI-86 and NBI-LI-92, reading upscale high. It was later learned that the mechanic had loosened the bolts on the flange which resulted in draining the condensing pot. The mechanic continued with and completed the gasket change-out.

After learning the cause of the erroneous level indication, the Shift Supervisor discussed the situation with the outage manager. The outage manager contacted maintenance planning to revise the MWR to include backfilling the sensing line and also informed the Instrument and Control (IAC) shop crew leader that Reference Leg 1A would require backfill.

The IAC technicians were uncertain over the high/low variable/reference leg configuration for this dP cell and since the procedure had steps for filling both sides of a dP cell, the technicians decided to fill both the high and low sides. They contacted the IAC crew leader to determine if any other instruments would be affected. The IAC crew leader misread the print and incorrectly informed them that there were not any other instruments that could be affected and the IAC technicians proceeded to fill the variable leg.

A control room operator noticed NBI-LI-94A and C were upscale and informed the IAC technicians of the indication. The IAC technicians looked at NBI-LIS-101A and B and noted them upscale. An IAC technician closed the demineralized water valve causing a drop in flow pressure with a subsequent down scale indication and activation of NBI-LS-101A and B. At 1658, the Reactor Vessel Water Low signal was initiated from a 2/4 logic and resulted in a reactor trip signal (with all rods previously fully inserted) and Groups 2, 3, and 6 isolations. The group isolations resulted in isolation and temporary loss of the Shutdown Cooling mode of the Residual Heat Removal System (Group 2) and isolation of the Secondary Containment and initiation of the Standby Gas Treatment System (Group 6). The Reactor Water Cleanup System (Group 3) was already isolated when the event occurred. At 1706, the reactor trip signal was reset, at 1707, Groups 2,3, and 6 isolations were reset, and at 1724, Shutdown Cooling was restored after a reactor water temperature increase of approximately three degrees Fahrenheit from 110 to 113.

4-95)	LICENSEE EX	VENT REPORT (I	.EP)			
	TEXT	CONTINUATION				
	FACILITY NAME (1)	DOCKET	LER NUMBER (6)	PAGE (3)		
			YEAR SEQUENTIAL REVISION			
001	PER NUCLEAR STATION	05000298	95 022 01	- 3 OF 4		
TEXT (If more space is required, use additional copies of NRC Form	366A) (17)		Alexandra and the second		
CAUS	SE					
The c that t refere	ause of this event is inadequate work planning a he scope of the maintenance activity was not ide ince leg.	nd review, (NUREG antified in the work o	1022 Cause Code A, Perso control documents for back	onnel Error) in filling the		
Perso requir work assun prope work	nnel involved in work package development did a ements in that backfilling the reference line was package did not consider existing plant condition nptions and the lack of verification and validation rly address the scope of maintenance to be perfor package was for backfilling the reference leg on	an inadequate job in not included in the o ns and the need for b n of information. The prmed and the review y.	specifying post maintenan- original work package. Rev backfilling the sensing line e revised work package to vers improperly assumed th	ce testing views of the due to improper backfill did not hat the revised		
SAFE	TY SIGNIFICANCE					
The s seque ncrea	afety significance of this specific event is low. A ence of events, the cause of the loss of shutdown ase in process temperature. If the event had occupitly restored shutdown cooling.	Although a number o n cooling was identif urred with a higher c	f errors were made throug ied and corrected with onl lecay heat load, the operat	hout the y a three degree ors could have		
CORF	RECTIVE ACTIONS					
mme	diate actions taken included:					
1.	The Plant Manager stopped work and conducts of "stopping in the face of uncertainty," and re	ed a briefing for plan ecognizing opportuni	it personnel on the event, ties to prevent similar prob	the importance plems.		
2.	The CNS outage newsletter was used to disse	minate lessons learn	ed from the event.			
Corre	ctive actions to prevent recurrence of this event	and similar events in	clude:			
1.	. Training will be provided to maintenance planners to enhance their ability to identify and develop post maintenance testing requirements.					
2.	The CNS Maintenance Manager will initiate a r maintenance planning and review process.	eview of this event t	to determine possible enha	ncements to the		

14-20	4		U.S. NUCLEAR REGULA	TORY COMMISSIO
	LICENSEE I TEXT	EVENT REPORT (I	LER)	
	FACILITY NAME (1)	DOCKET	LER NUMBER (6)	PAGE (3)
			YEAR SEQUENTIAL REVISION	
COOPER NUC	CLEAR STATION	05000298	95 022 01	4 OF 4
TEXT (If more sp	ace is required, use additional copies of NRC For	m 366A) (17)		
SIMILAR EVE	NTS			
LER 88-015	ESF Group Isolations occurred while Venting of the LT was being accomp serves several other LTs which result Low Level signal. Cause was attribut provided reflecting the steps or possi was reviewed with design engineers installation/acceptance testing. The dissemination of the information rega	preparing for acceptar lished by opening the ted in NBI-LIS-101A ar ted to a procedural de ible interactions that c in regards to providing LER was routed to IAC arding this event to the	nce testing of newly installe transmitter vent. The varia and B activating the Reactor ficiency in that no specific g ould occur during the proce g detailed instructions for C and Engineering superviso air personnel.	d NBI-LT-92. ble leg also Vessel Water guidance was ss. The event rs to promote
LER 89-002	ESF group isolations occurred while i indicators. An IAC tech was attempt investigative process. The test instru- being placed in service, an instrumen in two separate RPS channels to trip, and equipment to be used were not w the task being performed by the invo discussed with all IAC personnal duri the event as initially planned versus t event were incorporated into appropri-	investigating a two ind ting to valve a dP test ument used was incom a reference leg pressu . Cause was inadequa well defined. Addition lved personnel contrib ing a shop seminar, id the subsequent succes riate training programs	th deviation between Reactor instrument into the loop as rect for the intended applica re transient resulted in two ate job planning wherein the ally, an apparent lack of co outed to the event. The eve entifying the shortcomings asful plan. The lessons learn	or Vessel level part of the ition and upon level switches specific steps ncentration on nt was associated with ned from the

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Correspondence No: NLS960032

The following table identifies those actions committed to by the District in this document. Any other actions discussed in the submittal represent intended or planned actions by the District. They are described to the NRC for the NRC's information and are not regulatory commitments. Please notify the Licensing Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	COMMITTED DATE OR OUTAGE
Training will be provided to maintenance planners to enhance their ability to identify and develop post maintenance testing requirements.	July 23, 1996
The CNS Maintenance Manager will initiate a review of this event to determine possible enhancements to the maintenance planning and review process.	April 20, 1996

PROCEDURE NUMBER 0.42	REVISION NUMBER 1	PAGE 10 OF 1