									11 8 NU	CLEAT	P. REQUILATO	AN COMM	REION
(9-83)									A	PRAON	VED OMB NO	3150-010	A
1.1.1				LIC	ENSEE EVE	NT RE	PORT	(LER)	E	XPIRE	\$ 8/31/95		
FACILITY NAM	ME (1)								DOCKET NUMBER	(2)		FAGE	(3)
	Ca	tawba	Nuclear	Station	, Unit 1				0 5 0 0	101	411 3	1 OF	0 13
TITLE (A)													
EVENT (CO	ntrol	Rod Dri	ve Assem	blies Remo	oved	Improp	orly	FACILITIES INVO	VED	(8)		
MONTH OF	Y YEAR	YEAR	SEQUENTIA	REVISION	MONTH DAY	YEAR		FACILITY NA	MES	Tooce	KET NUMBER	R(S)	
		-	NUMBER	NUMBER						01	51010	101 1	1
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OPERATI	ING G	THIS REPO	RT IS SUBMITT	ED PURSUANT	TO THE REQUIREME	INTS OF 1	O CFR §: 10	theck ane or more	of the following) (1	1)			
MODE	n 19	20.40	2(b)		20.405(c)			80.73(a)(2)(iv)			73,71(b)		
LEVEL	01010	20.40	6(a)(1)(i)	-	80.36(e)(1)			50.73(a)(2)(vii)		-	OTHER /Sa	with in Abst	rect
1107	0,010	20.40	(a)(1)(iii)	X	60.73(a)(2)(i)		H	50.73(a)(2)(v(ii))(A)	-	below and in 366A)	Text, NRC	Form
		20.44	6(a)(1)(lv)		60.73(a)(2)(k)			60.73(a)(2)(viii)(
		20.40	18(a)(1)(v)		50.73(e)(2)(iii)			50.73(a)(2)(x)					
				1	ICENSEE CONTACT	FOR THE	LER (12)						
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	o get int	ouer.	COMPLET	E ONE LINE FOR	EACH COMPONENT	FAILUR	DESCRIBE	D IN THIS REPOR	AT (13)	1.31	11-1	1/12.0	10
a use level	COMPC		MANUFAC	REPORTABLE		Louis	-	COMPONENT	MANUFAC	RE	PORTABLE		
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ABSTRACT /L	mit to 1400 spe	ces i.e., epp	proximetely fiftee	n single-spece type	ewritten lines) (16)								
While	e latch	ing th	le Contr	ol Rod D	rive Asser	nblie	s (CRD	A) to th	e Rod Con	itro	1 Clus	ter	
(RCC), two (CRDA's	s failed	to lock	after bei	ing p	laced	in the 1	atched po	sit	ion.	Unit	1
was :	in Mode	6, 11	itial t	ueling,	at the tin	ne ot	this	incident	. Severa	il u	nsucce	ssful	
two	CPDA's H	re mac	le in lo	cking th	ese CRDA s	s to	the Ru	C. IC W	as determ	iine	d that	these	2
LWO I	CRDA 5	vere c	lerective	e and mo	st be rep	Laceu	•						
On Jr	ulv 29.	1984	betwee	n 1500 a	nd 1545 h	urs.	the F	leactor B	uilding 2	5 t	on Cra	ne	
was 1	used to	remov	ve two i	noperabl	e CRDA's	Core	locat	ion D-2	and J-3)	fro	m the	are .	
React	tor Vess	sel.	This wa	s in vic	lation of	Tech	nical	Specific	ation (Te	ch	Spec)	3.9.6	
which	h states	s in p	part tha	t any mo	vement of	Driv	e Rods	or Fuel	Assemb11	es	within	the	
Reac	cor Vest	sel sh	hall be	performe	d with the	e man:	ipulat	orcrane	and auxil	iar	y hois	t.	
It al	lso stat	tes th	nat a lo	ad indic	ator will	be u	sed to	prevent	lifting	loa	ids in		
excer	ss of 60	00 pou	inds.										
		1.5.0						1					
The o	cause of	f this	incide	nt is cl	assified a	as Pe	rsonne	1 Error.					

Once Tech Spec 3.9.6 was identified as possibly being violated, the job was halted and a procedure was written to complete the task of installing two new CRDA's.

NRC Form 366

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NRC Form 366A (9-83)	LICENSEE E	VENT REPO	ORT (LER) TEXT CONTIN	UATION	U.S.	APPROVED O EXPIRES: 8/3	MB NO. 3150-0	104
FACILITY NAME (1)			DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
				YEAR	SEQUENTIAL NUMBER	REVISION		
Catawba Nuc	lear Station,	Unit 1	0 5 0 0 4 13	8 4 -	- 01013	- 010	012 OF	0 13

After fuel has been loaded in the Reactor Vessel and the upper internals installed, a latching process takes place to connect the 53 Control Rod Drive Assemblies (CRDA's) to the Rod Control Cluster (RCC). This task is done with a special tool suspended over the Reactor Vessel by the Manipulator Crane's Auxiliary Hoist. With the use of this tool, a Technician can latch and then lock the CRDA to the RCC.

During the latching and locking process, two CRDA's (Core location D-2 and J-3) would not lock after being latched into place. Attempts were made repeatedly to lock CRDA's D-2 and J-3 into the RCC with no success. These two CRDA's were determined to be defective and a Work Request was initiated to replace them.

Two procedures were referenced initially on the Work Request: MP/0/A/7150/74, Reactor Vessel Drive Rod Assembly Installation and MP/0/A/7150/67, Control Rod Drive Latching and Unlatching.

The first procedure, MP/O/A/7150/74 (Reactor Vessel Drive Rod Assembly Installation) was referenced for the purpose of installing new CRDA's into the Reactor Vessel after the defective ones were removed. However, this procedure did not apply to this job and should have been deleted. The statement of purpose for this procedure is "To provide a method of installing the Drive Rods into the Reactor Vessel". This statement is misleading, since Procedure MP/O/A/7150/74 is only used for installing Drive Rods in the upper internals while in storage, not after the internals are placed in the Reactor Vessel.

The second procedure, MP/0/A/7150/67 (Control Rod Drive Latching and Unlatching) was referenced for the purpose of removing the defective CRDA's from the Reactor Vessel. This procedure does have a section in it (11.11 Drive Rod Assembly "Removal") that can be used to remove a CRDA from the Reactor Vessel. However, a storage rack for the CRDA's is required on the Reactor Cavity Wall and presently there is not a storage rack available. This procedure was deleted from the Work Request due to this discrepancy. The storage rack will be built in the near future.

The work that proceeded after both procedures were discounted was the lifting of two defected CRDA's out of the Reactor Cavity with the Reactor Building 25 ton crane.

Special precautions were taken during the removal of the defective CRDA's. The unlatching of both CRDA's was verified by two methods. First, the Manipulator Crane Hoist was used with a load indicator attached to assure no excessive load was on the CRDA once it had been unlatched. This test assures that the CRDA is totally separated from the RCC. The second verification was a visual check performed by Westinghouse Representatives. After CRDA's are unlatched from the RCC, they will rise several inches higher than latched CRDA's and are easily detected. Once it was certain that the defective CRDA's were unlatched from the RCC, a Westinghouse Representative assisted in the removal of the CRDA's while being located on top of the upper internals. This was possible since the Reactor Cavity was not full of water. Radiation levels were insignificant since this unit has not been. LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

EARLY FU MAKE IN	Incourse manages in	EXPIRES: 8/3	1/85	
PAGINET MARIA III	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
		YEAR SEQUENTIAL REVISION NUMBER		
Catawba Nuclear Station, Unit 1	0 5 0 0 0 4 1 3	814-0 b 13-010	03 OF 0 3	
TEXT III more space a required, use additional NRC Form 3864 (s) (17)			Middlend -	

critical. The Westinghouse Representative was able to help guide the CRDA's out of the Reactor Vessel while assuring that binding did not take place. This special precaution was taken since the Reactor Building 25 ton crane was used without a load indicator.

While lifting these two Control Rod Drive Assemblies out of the Reactor Vessel, the Relief Fuel Handling SRO came on duty and questioned the possibility of violating Tech Spec 3.9.6. The Operating Duty Engineer was contacted and the job was halted. Both defective CRDA's had been completely removed from the Vessel before the job was stopped.

Procedure MP/0/A/7150/76, Drive Rod Assembly Installation, was written to install the CRDA's and complete the job.

CORRECTIVE ACTION

- Immediate: A Fuel Handling SRO identified Tech Spec 3.9.6 violation and halted the work.
- Subsequent: Procedure MP/0/A/7150/76, Drive Rod Assembly Installation, was written to complete the job.
- Planned:
 - ed: 1) A CRDA Storage Rack will be constructed and mounted on the Reactor Cavity wall so that Procedure MP/0/A/7150/67 may be utilized in the future.
 - The purpose statement in Procedure MP/0/A/7150/74 will be revised to reflect the job it describes.

The verification for the CRDA Storage Rack will be a completed Work Request written to mount the storage rack on the Reactor Cavity wall. This will allow for the proper crane use.

The verification for the change of purpose statement on Procedure MP/0/A/7150/74 will be a completed Procedure Major Change Process Record.

SAFETY ANALYSIS

Because of the special precautions taken there was never a threat of damaging the Reactor Vessel, upper internals or CRDA's.

This event posed no threat to the health and safety of the general public.

DUKE POWER COMPANY P.O. BOX 33189 CHARLOTTE, N.C. 28242

EAL B. TUCKER vice president neclear production

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August 28, 1984

TELEPHONE (704) 373-4531

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

Subject: Catawba Nuclear Station, Unit 1 Docket Nos. 50-413

Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a) (1) and (d), attached is Licensee Event Report 413/84-03 concerning Control Rod Drive Assemblies Removed Improperly. This event was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

20 B. Trucke

Hal B. Tucker

RWO:s1b

*

Attachment

cc: Mr. James P. O'Reilly, Regional Administrator U. S. Nuclear Regulatory Commission Region II 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

Records Center Institute of Nuclear Power Operations 1100 Circle 75 Parkway, Suite 1500 Atlanta, Georgia 30339

NRC Resident Inspector Catawba Nuclear Station

American Nuclear Insurers c/o Dottie Sherman, ANI Library The Exchange, Suite 245 270 Farmington Avenue Farmington, CT 06032

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cc: Palmetto Alliance 2135½ Devine Street Columbia, South Carolina 29205

> Mr. Robert Guild, Esq. Attorney-at-Law P. O. Box 12097 Charleston, South Carolina 29412

Mr. Jesse L. Riley Carolina Environmental Study Group 854 Henley Place Charlotte, North Carolina 28207