# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: FACIL:50-287	9104230278 DOC.DATE: Oconee Nuclear Station, AUTHOR AFFILIATION	91/04/19 NOTARIZED: NO Unit 3, Duke Power Co.	DOCKET # 05000287
AUTH.NAME			
LOWERY, H.R.	Duke Power Co.		
BARRON, H.B. RECIP.NAME	Duke Power Co. RECIPIENT AFFILIAT	ION	R

Ι

D

S

А

D

D

S

R

I

D

S

Г

SUBJECT: LER 91-004-00:on 910208, work crew installed 3/4 inch conduit through firewall separating east & west penetration rooms. Crew mistakenly assumed wall not firewall.Caused by failure of crew to follow procedures.Individuals counseled.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR | ENCL | SIZE: / TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

#### NOTES:

	RECIPIENT ID CODE/NAME PD2-3 LA WIENS,L	COPIE LTTR 1 1	ES ENCL 1 1	RECIPIENT ID CODE/NAME PD2-3 PD	COP LTTR 1	IES ENCL 1
INTERNAL:	ACNW AEOD/DOA AEOD/ROAB/DSP NRR/DET/EMEB 7E NRR/DLPQ/LPEB10 NRR/DREP/PRPB11 NRR/DST/SICB 7E NRR/DST/SRXB 8E RES/DSIR/EIB	2 1 2 1 1 2 1 1 1	2 1 1 1 2 1 1 1	ACRS AEOD/DSP/TPAB NRR/DET/ECMB 9H NRR/DLPQ/LHFB11 NRR/DOEA/OEAB NRR/DST/SELB 8D NRR/DST/SELB 8D NRR/DS%R/SPLB8D1 REG FILE 02 RGN2 FILE 01	2 1 1 1 1 1 1 1	2 1 1 1 1 1 1 1
EXTERNAL:	EG&G BRYCE,J.H NRC PDR NSIC MURPHY,G.A	3 1 1	3 1 1	L ST LOBBY WARD NSIC MAYS,G NUDOCS FULL TXT	1 1 1	1 1 1

### NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

FULL TEXT CONVERSION REQUIRED TOTAL NUMBER OF COPIES REQUIRED: LTTR 33 ENCL 33 Duke Power Company Oconee Nuclear Station P.O. Box 1439 Searca: SC 29673



DUKE POWER

April 19, 1991

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

Subject: Oconee Nuclear Station Docket Nos. 50-269, -270, -287 LER 287/91-04

Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a)(1) and (d), attached is Licensee Event Report (LER) 287/91-04 concerning a degraded fire barrier.

This report is being submitted in accordance with 10 CFR 50.73 (a)(2)(i)(b). This event is considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

143 Barr

H. B. Barron Station Manager

RSM/ftr

Attachment

xc: Mr. S. D. Ebneter Regional Administrator, Region II U.S. Nuclear Regulatory Commission 101 Marietta St., NW, Suite 2900 Atlanta, Georgia 30323

> Mr. I. A. Wiens Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, DC 20555

NRC Resident Inspector Oconee Nuclear Station INFO Records Center Suite 1500 1100 Circle 75 Parkway Atlanta, Georgia 30339

M&M Nuclear Consultants 1221 Avenue of the Americas New York, NY 10020

IE22

NRC FOR (6-89)	M 366											U.S. NU	CLEAR F	IEGI	ULATOR	CON	MISS	ION			APP				3150-01	104			
	-			LIC	E	NŚE	EE E	VE	NT	RE	PC	ORT (I	LER)				·		INF CON AND REG THE	IMATED ORMATIC IMENTS I O REPOR ULATOR PAPERI MANAGE	ON COL REGARI TS MAN Y COM	N PE	ER RI TION BUR MEN ION, I	REQUE DEN ES T BRAM WASHII	E TO ( ST: 50 TIMATI ICH (P4 NGTON) JECT (	).0 H E TO 530), , DC 3150	IRS. FO THE R U.S. N 20555, 0104),	ECOP UCLE AND OFF	RD IDS AR TO
FACILITY	NAME (1 1ee N		ear	St	at	ion	ι <b>,</b> Ü	Jnit	t 3												кет N				18 17	7	1 OF	GE (3 F ()	18
TITLE (4)									_		, -	to Fo	11ow	P	roce	iur	e.	Dur	ing		<u> </u>		_			<u> </u>		10	10
												sults	in	a	Degra				Ba	irrie	er								
	NT DATE				1		UMB						PORT DA	T						HER FA		SIN			NUMB	50/0			
MONTH	DAY	YEAI	₹   Y	EAR		N	UMBE	R L		NUMB		MONTH	DAY	╞	EAR			FA	CILII	Y NAMES						_	" ^ ·		
02	0 8	9		) 1	_		o	4	_	ol	~	0 4	19		91									I	·l		<u> </u>		
02	UO	-14		_						-	-	O THE R		1		CER	8. 10	beck o	ne 01	more of t	he falla	winal		15		•	<u> </u>		1
	RATING De (9)				.402					T		20.405(							3(a)(2)				1	73	.71(b)				
POWEI	4			20	.405	(a)(1)	(i)					50.36(c	)(1)					50.7	3(a)(2)	)(v)			F	73	.71(c)				
(10)	<u> </u>	0 [-	-	20	.405	(a)(1)	(ii)					50,38(č	)(2)	÷				50,7	3(a)(2)	)( <del>v</del> ii)			Γ				ify in Al Text, NR		
				20	.405	(a)(1)	(iii)			ļ	X	50.73(s	)(2)(i) (]	5)						(viii)(A)					6A)				
				-		(#)(1)				-		50,73(a								)(viii)(B)	1								
				20	.405	(a)(1)	(v)					50.73(a		- T E		1.68		50,7	3(s)(2	)(x)									
NAME													CONTAC								T		т	ELEPH		мв	R		
								•													AREA								
Hen	ry R.	Lo	wer	<u>у</u> ,	Ch	aiı	mar	1													81	0	3	818	121	-1	310	)13	14
		r			<del>.</del>	C	OMPL	ETE C	ONE I	INE F	FOR	EACH CO	OMPONE	NTI	FAILURE	DESC	AIBE	DINI	HIS I	REPORT	(13)			T		iee			
CAUSE	SYSTEM	co	MPONE	NT			UFAC-			NPRD					CAUSE	SYS	TEM	со	MPON	ENT	MAN	RER			NPRDS	E			
			_1	1		1	1										1					1							
			1	1				1.									1				I	1							
							SUPPL	EME	NTAL	REPO	ORT	EXPECT	ED (14)				<u>.</u>						CTEC		MON	тн	DAY	Y	EAR
	5 (If ves. c		. FXPI	CTEC	- <b>-</b>	RM/S	SION C					-	XINO										ISSIO E (15)		1.		ł		1
	CT (Limit									spece	typ	ewritten lii													11		I		
		Mod fir Teccnot NSM rev wal bee the com 195 and out 15, Ina	ifi ewa ach hni a iew ber a ber a ber a p ber a c a g p prri	cat wal calfir On g s adet our on s adet our on s oprt	io se s s s s s s s s s s s s s s s s s s	n ( parnot peccall rcl he centre tec tec tec tec tec tec tec tec tec	(NSM rati : sec :fi l arr pap rnin e ba a fi d ac t af ther ruan 1235 Act caus	1), ing ale ication ication irev irev to to to to to to to to to to to to to	a ed tic fai 199 wor the ier wal on c un 13, our n, was	wor ne E nor ons. lec 01, 'k c e ur to to to to to son as a i 19 fa:	rkar dansligati 9 il	g the crew st an Was a The to fo the ealed the twas thout thout thout to a se a geme	v ins of We fir crew 00 ho NSM d pen det the fi ful s shu coot the the the the the ful	ta st uduterra itcinica	lled Pen watc ad m he in s, a ie to rati equi ch s bar powe lown t re work	3/ etrefet istl quonted realerie forh of cr	4 i ati sta ake eme chr est hat con et con her the the the the the	inchion abli abli anly entanication tis to to to to to	roc roc she itic il S ins l rev dec ins dec inc fo	ondui oms f ed as ssume on pr Suppo oreac atory repa clare clare incic uled shuto ident	t the for the occept of ident ident action a	hrc Uni qui he dur Lea f ti tic per or s a c c c	ug lt wa ce ifi in consere cab ccu lin Fass dur ing	h th 3. d by for va creed t deec g ebru ebru igne e.	The vas the sw he hey they at				

NRC Form 366 (6-89)

	U.S. NUCLEAR REGULATORY COMMISSION NT REPORT (LER)	APPROVED OMB NO. 315 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE T INFORMATION COLLECTION REQUEST: COMMENTS REGARDING BURDEN ESTIM AND REPORTS MANAGEMENT BRANCH	TO COMPLY WTH THIS 50.0 HRS. FORWARD
FACILITY NAME (1)	DOCKET NUMBER (2)	REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC OF MANAGEMENT AND BUDGET, WASHI LER NUMBER (6)	ON, DC 20555, AND TO T (3150-0104), OFFICE
Oconee Nuclear Station, Unit	3 0 5 0 0 2 8 7	YEAR     SEQUENTIAL NUMBER     REVISION NUMBER       9 1     0 0 4     0 0	4
TEXT (If more space is required, use additional NRC Form 366A's)	(17)		

#### BACKGROUND

A firewall (EIIS:KP) is a structure which is designed to impede the travel of smoke or flame. Firewalls are used to impede the spread of a fire to areas containing safety related equipment.

At Oconee, two Penetration Rooms are located in the Auxiliary Building (EIIS:NF) adjacent to the Reactor Building (EIIS:NH). The Penetration Rooms are the location of most fluid and electrical penetrations to and from the Reactor Building. Safety related equipment such as Engineered Safeguards System (EIIS:JE) and Emergency Feedwater System (EIIS:BA) valves are located in the Penetration Rooms. The Penetration Rooms are identified as East Penetration Room and West Penetration Room and are separated by a firewall with a fire door.

Oconee Technical Specification 3.17, "Fire Protection and Detection Systems", requires all fire barrier penetrations protecting safety related areas to be operable. If such a barrier is not operable, Technical Specifications further require that a determination of fire detection instrumentation for the affected area be made. If the instrumentation is operable, a fire watch, which consists of a physical inspection of an area or equipment to determine if a fire or threat of fire exists, shall be performed every hour. If fire detection instrumentation is not operable, then a continuous fire watch is required.

Nuclear Station Modification (NSM) 32845, Part AL1, "CAD Doors for Vitalizing West Penetration Room and Cask Decontamination Room," involved the upgrading of security requirements in the Unit 3 West Penetration Room. One of the upgrades was the installation of a computerized security badge card reader (CAD) on the wall between the West and East Penetration Rooms. It required running a 3/4 inch conduit through the wall separating the two rooms.

Work requests are used to document the work performed on most station equipment. The work request form includes a section which specifies the Quality Assurance (QA) condition of the equipment. QA condition is the level of the Quality Assurance Program that has been applied to certain areas of design, construction, operation and maintenance. The QA condition for fire protection equipment is QA 3.

#### EVENT DESCRIPTION

Nuclear Station Modification (NSM) 32845, Part AL1, was scheduled to be implemented on Unit 3 beginning February 3, 1991. Unit 3 was at 100 percent full power and it was desired to complete the NSM prior to the Unit's upcoming refueling outage scheduled to begin on February 13, 1991.

The NSM was scheduled and planned using Work Request (WR) 98672 which stated: "Install the CAD doors for NSM 32845 per the instructions in TN/3/B/2845/0/AL1. NRC Commitment." In Section II of the WR, which

		APPROVED OMB NO. 3150 EXPIRES: 4/30/92 STIMATED BURDEN PER RESPONSE TO INFORMATION COLLECTION REQUEST: COMMENTS REGARDING BURDEN ESTIMA AND REPORTS MANAGEMENT BRANCH ( REGULATORY COMMISSION, WASHINGTO THE PAPERWORK REDUCTION PROJECT OF MANAGEMENT AND BUDGET, WASHIN	COMPLY WTH THIS 50.0 HRS. FORWARD ATE TO THE RECORDS P-5301, U.S. NUCLEAR N, DC 20555, AND TO (3150-0104), OFFICE
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
		YEAR SEQUENTIAL REVISION NUMBER NUMBER	
Oconee Nuclear Station, Unit 3	0 5 0 0 2 87	9 1 - 0 0 4 - 0 0	0 3 0F 0 8
Oconee Nuclear Station, Unit 3 TEXT (If more space is required, use additional NRC Form 366A's) (17)	0 5 0 0 2 8 7	91-004-00	0 3 0= 0 8

specifies additional requirements, instructions, and procedures to use, the Quality Assurance (QA) condition was denoted to be not applicable (N/A). This section had been previously prepared by the Technical Support Leader and the Accountable Engineer for the NSM.

On February 8, 1991, the NSM implementation was assigned to one of the Construction and Maintenance Department (CMD) crews that normally perform NSM work. The CMD Crew Supervisor was attending scheduled training and a crew member was assigned duties as the Temporary Supervisor. Temporary Supervisor (TS) A reviewed his work list for the day and assigned various jobs to the seventeen crew members. The NSM for the West Penetration wall was assigned to two temporary employees and, along with TS A, they reviewed the scope of the job. They reviewed the NSM implementation package which included the work request, the implementing procedure and drawings. They then visited the job site at the West Penetration Room to investigate the job.

From this review, TS A made the assumption that the wall was not a fire barrier but some type of moisture barrier. He then instructed the workers to install the hardware, drill the hole for the conduit, and install the conduit. He decided that the penetration did not have to be sealed after the conduit was installed and that a fire watch was not required. TS A stated that he based this decision on the following; he had nothing in his work package to indicate that the wall was a fire barrier, the work request indicated that there was no QA condition, and he observed no local signs to denote the wall as a fire barrier. He also stated that, in his experience, most of the fire barrier walls were 10 inches thick whereas this wall was only 6 inches thick.

The NSM implementing procedure, TN/3/B/2845/00/AL1, "Implementing Procedure for Vitalization of the West Penetration Room and Cask Decontamination Room," had instructions to install the CAD hardware on the wall that separates the East and West Penetration Rooms. After the steps that called for the installation of the hardware, step 8.7.2 stated, "Install conduit per DRG. 0-909D and IP/0/A/3010/003A". Drawing 0-909D, which was a detailed drawing of the installation of the hardware and conduit in relation to the wall, had no indication that the wall was a fire barrier. IP/0/A/3010/003A, "Procedure for Mounting Field Run Instrument Tubing and Cable Support System" was the procedure that the Accountable Engineer had included in the implementing procedure to control any penetration of fire barriers. The reference to fire barrier control is in the procedure section under a list of notes located before the action statements. Note 10 states, "New penetrations shall be assigned an appropriate firestop number by the responsible Maintenance Engineer." Note 11 states. "Breached firestops shall be opened and repaired in accordance with the appropriate firestop procedure." TS A stated that he did not read this section of the procedure and had decided that he did not have to use it as directed by the implementing procedure because, in his mind, he was not penetrating a fire barrier.

TS A left the work area in the West Penetration Room to check on other jobs involving his crew. He made several progress checks with the workers in the Penetration Room during the day. Later in the afternoon

LICENSEE EVENT REPORT TEXT CONTINUATION	(LER)	EXPIRES: 4/30/ STIMATED BURDEN PER RESPONSE INFORMATION COLLECTION REQUES COMMENTS REGARDING BURDEN EST AND REPORTS MANAGEMENT BRANC REGULATORY COMMISSION, WASHIN THE PAPERWORK REDUCTION PROJ OF MANAGEMENT AND BUDGET, WAS	TO COMPLY WTH THIS IT: 50:0 HRS. FORWARD IMATE TO THE RECORDS CH (P-530), U.S. NUCLEAR GTON, DC 20555, AND TO ECT (3150-0104), OFFICE
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	
Oconee Nuclear Station, Unit 3	  0  5  0  0  0  2  8  7 .		00140F018

of February 8, 1991, the workers completed NSM 32845, Part AL1 and signed the procedure step denoting the job was complete. They had drilled a 1 inch hole in the wall and installed a 3/4 inch conduit.

On February 13, 1991, at 1500, Unit 3 was removed from service to begin a scheduled refueling outage. The unit reached cold shutdown at 1235 hours on February 15, 1991.

On March 19, 1991, the CMD crew member that had drilled the hole and installed the conduit told the CMD Crew Supervisor that he had noticed a large gap between the conduit and wall and questioned if it should be sealed. The CMD Crew Supervisor contacted the crew that seals firestops and asked them to seal this penetration. Later that afternoon the sealing crew contacted the CMD Crew Supervisor and informed him that the conduit had penetrated a fire barrier and they would need a firestop number from the responsible Maintenance Engineer before they could seal it. The CMD Crew Supervisor then contacted CMD Scheduler A, who had scheduled the NSM work, for help on resolving the problem. CMD Scheduler A attempted to contact the Technical Support Leader for the NSM but was unable to reach him. Since it was late in the afternoon, CMD Scheduler A decided he would pursue the problem the next day.

On March 20, 1991, at 0730 hours CMD Scheduler A contacted the Technical Support Leader (TSL) and informed him of the potential problem. The TSL said he would review the problem. At 0800 hours, while reviewing the paperwork on the NSM, he noticed a drawing that identified the wall as a fire barrier. He contacted the CMD Crew Supervisor and informed him of his suspicions but that he needed to talk with TS A and the crew that had installed the conduit. TS A was not working on site and was unable to be contacted. The TSL then contacted the Accountable Engineer and informed him of his findings and concerns and questioned him for further quidance. The Accountable Engineer made several attempts to telephone Unit 3 Operations Manager and the Safety Group Manager but was unable to contact them. At 1300 hours the Accountable Engineer contacted the Maintenance Engineer that assigned firestop numbers and questioned him as to what should be done. The Maintenance Engineer said he would investigate and call him back. The Accountable Engineer was contacted by the Maintenance Engineer with an assigned penetration number to firestop the penetration. At 1500 hours the Accountable Engineer contacted the TSL with the information and instructed him to proceed with the repairs to the fire wall. At 1715 a fire watch was established at the breach and the repairs began. The firewall was declared operable at 1950 hours on March 20, 1991.

#### CONCLUSIONS

The root cause of this event is Inappropriate Action, followed no procedure when one existed, on the part of Temporary Supervisor (TS) A. TS A was controlling the procedures used to install the conduit through the Penetration Room wall. The Nuclear Station Modification (NSM) implementing procedure TN/3/2845/00/AL1 had a step stating "Install

Arc Form 1684. (683)	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150	0.0104
-		EXPIRES: 4/30/92	
		STIMATED BURDEN PER RESPONSE TO NFORMATION COLLECTION REQUEST: COMMENTS REGARDING BURDEN ESTIM AND REPORTS MANAGEMENT BRANCH REGULATORY COMMISSION, WASHINGTO THE PAPERWORK REDUCTION PROJECT OF MANAGEMENT AND BUDGET, WASHIN	50.0 HRS. FORWARD ATE TO THE RECORDS (P-530), U.S. NUCLEAR ON, DC 20555, AND TO T (3150-0104) OFFICE
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
		YEAR SEQUENTIAL REVISION	
Oconee Nuclear Station, Unit 3	0 5 0 0 2 8 7	91_004_000	0 5 0 0 8
TEXT (If more space is required, use additional NRC Form 366A's) (17)			

conduit per DRG. 0-909D and IP/0/A/3010/003A". TS A made the assumption that the wall was not a fire barrier and chose not to use the IP/0/A/3010/003A (IP) procedure to install the conduit. A note in the IP, if read and used, would have directed the procedure user to have the penetration assigned a firestop number. This would have alerted personnel that the wall was a fire barrier. It certainly can be supported that the IP could have been enhanced to adequately control the work which breached the fire barrier. The procedure relied only on a note at the front of the procedure and it also had a less than adequate statement of the Purpose and General Description. On the other hand, it is not permissible for a the procedure user to disregard a direct step in a procedure. At the minimum, if the procedure is wrong, a procedure change would be the proper way to fix the problem.

A contributing cause to this event is Management Deficiency, inadequate planning in the development of the NSM package. There were several opportunities in the planning and development of the NSM package to clearly denote that the wall in the Penetration Room was a fire barrier. The controlling procedure for the NSM implementation should have stated explicitly that the Penetration Room wall was a fire barrier. The Oconee Nuclear Station Projects Services Manual, in its Technical Review Guidelines, states that the procedure should "include adequate steps to control and repair work which violates a fire barrier....". The NSM implementing procedure referred only to a procedure to field route the conduit and it did not specifically state, as an action step, the precautions that would be necessary to prevent a breach of a fire barrier. Furthermore, neither the drawings specified to route the conduit nor the Work Request used to plan the work, were designated as Quality Assurance condition 3. This would have indicated that the installation involved fire protection. Also, the Maintenance Procedure for sealing firestops was not specified on the Work Request or in the implementing procedure as required by Station Directives.

The firewall between the Unit 3 East and West Penetration Rooms was breached with a one inch hole from February 8, 1991, to March 20, 1991. A 3/4 inch conduit was placed in this penetration without sealing. Since the Unit was shutdown for a refueling outage on February 13, 1991, at 1500 hours and reached cold shutdown at 1235 hours on February 15, 1991, and remained at cold shutdown until March 21, 1991, Technical Specification for Fire Protection was violated for approximately 7 days. Station Administrative controls for compensatory actions in cases where fire barriers are breached do not distinguish between Technical Specification required operability and other operational status. Thus. Station Administrative controls were violated from the time the fire barrier was breached until the time a fire watch was established when the repairs were started. Also, once the problem was identified, there was less than adequate response in taking immediate corrective actions to resolve the problem. This indicates a less than adequate understanding of Station Administrative controls for fire barriers. It is concluded that the response would not have been different had the Unit been above cold shutdown, when Technical Specification requires compensatory action. The planned corrective action addressing this awareness problem should preclude a similar situation.

ARC FORM 395A. (6-69)	U.S. 1	NUCLEA	RREG	ULATO	RY C	OMMISS	ION				APPRO	ุ่งรถ ด	MB NO. 31	50.010	4	
	· · · · · · · · · · · · · · · · · · ·												S: 4/30/92		•	
Т	NSEE <b>NT REPORT</b> ( EXT CONTINUATION	LER)						AND REG 1HE	RMAT MENT REPC ULAT PAPE	FION S RE DRTS DRY RWO	JRDEN COLLE GARDIN MANAG COMMIS RK RE	PER RE CTION G BURI SEMENT SION, N DUCTIO	ESPONSE REQUEST DEN ESTIN BRANCH WASHING N PROJEC ET, WASH	TO CO 50.0 MATE 1 (P-530 TON, D CT (31	HRS. FO TO THE R 0), U.S. N 0C 20555, 50-0104).	DRWARD RECORDS IUCLEAR AND TO OFFICE
FACILITY NAME (1)		DOCKE	TNUM	8ER (2	)				L	LER NUMBER (6)				T	PAGE	(3)
							YEAF			UENTI		NUMBER				
Oconee Nuclear Stati	lon, Unit 3	0 5	0	0	) ;	2   8	7	9 <sub> </sub> 1	.	.   o	01	•	0 0	0	6 OF	0 8
TEXT (If more spece is required, use additional	NRC Form 386A's) (17)												<u></u>	<u></u>		
is a recurn occurred or door on the root cause crew. A wo was also io	f events occurring or ring problem. PIR 4 n February 21, 1990, e High Pressure Serv of that event was i ork practice deficie dentified. A correc re barrier concerns	-090 inv vice napp ency ctive	-00 Valv Vat in ac	27 d ing er [ riat Plan tion	les th EI e ni w	crib e un IS:K acti .ng a vas t	es att P] on nd	an end pum on Sch	eve ed l p e the edu ss	nt bre nc] pa lir the	whice each losun art c ng Ma e nee	ch of of a anag ad t	a fir The work ement o	e		

Planning and Scheduling Section is a separate group from the Construction and Maintenance Division (CMD) planning group. A training package was issued to the Station planners, who were encouraged to be aware of fire barrier situations in the planning process. The similar nature of the two events indicate that the previous corrective action was not effective. The training package was not distributed to all personnel who plan Work Requests. Those groups omitted from the previous report will be included in the corrective actions of this report.

to the Station Maintenance Planning and Scheduling Section. The Station

This event is not NPRDS reportable. There was no release of radioactive material or exposure to radiation involved. This event did not involve any personnel injuries.

CORRECTIVE ACTIONS

Immediate

None

Subsequent

1. The Safety Section was notified of a fire barrier degradation.

2. A firewatch was established every hour from the time that the wall was identified as a fire barrier until the breach was sealed.

3. The penetration was repaired with fire retardant sealant.

#### Flanned

----

- 1. The Temporary Supervisor and involved workers will be counseled to follow appropriate procedures when installing Nuclear Station Modifications.
- 2. IP/0/A/3010/003A will be revised to include the identification of fire barriers in action steps.
- 3. A training package will be issued to all Projects Services Accountable Engineers and Construction and Maintenance Division (CMD) Technical Support Leaders emphasizing the importance of a complete review of the Fire Protection System

LICENSEE   ENT REPORT (LER)     TEXT CONTINUATION   STIMATED BURDEN PER RESPONSE TO COMPLY WTH TO NFORMATION COLLECTION REQUEST: 500 HRS. FORMATION COLLECTION REQUEST: 500 HRS. FORMATION COMMENTS REGARDING BURDEN FSTIMATE TO THE RECOL AND REPORTS MANAGEMENT BRANCH (P.530), U.S. NUCLI REGULATORY COMMISSION, WASHINGTON, DC 20503.     FACILITY NAME (1)   DOCKET NUMBER (2)   LER NUMBER (6)   PAGE (3)     YEAR   SEQUENTIAL   REVISION NUMBER   PAGE (3)	NRC FORM 385A (6-89)	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 315 EXPIRES: 4/30/92	
VEAR LER NUMBER (6) PAGE (3)   YEAR SEQUENTIAL REVISION   NUMBER NUMBER NUMBER			STIMATED BURDEN PER RESPONSE T INFORMATION COLLECTION REQUEST: COMMENTS REGARDING BURDEN FSTIM AND REPORTS MANAGEMENT BRANCH REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC	O COMPLY WTH THIS 50.0 HRS. FORWARD ATE TO THE RECORDS (P-530), U.S. NUCLEAR ON, DC 20555, AND TO T (3150-0104). OFFICE
	FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
	Oconee Nuclear Station, Unit 3	0  5  0  0  0  2  8  7	NUMBER NUMBER	

requirements when preparing implementing procedures and Work Requests for Nuclear Station Modifications.

- 4. A training package will be issued to Integrated Scheduling Shift Managers and Operations Unit Supervisors emphasizing the responsibility to include fire barrier information if called upon to plan work requests during emergencies or urgent situations.
- 5. A training package will be issued to station CMD personnel involved in NSM work which emphasizes the importance of administrative controls of fire protection systems. The deficiencies of this report will also be discussed.

#### SAFETY ANALYSIS

The East and West Penetration Rooms house portions of redundant systems that are necessary to bring the unit to a safe shutdown. The purpose of the wall between the East and West Penetration rooms is to prevent a fire from spreading from one room to the other, destroying the redundant systems that are housed in each room. During this event a small opening (approximately 1/3 square inch) was created when a steel electrical conduit was installed through the wall for the period of time between February 8 and March 20, 1991. During this time the unit operated at 100% full power for approximately seven days and was shutdown for approximately 34 days. While the unit was operating, the fire retardant properties of the wall were required for the protection of the systems housed in the rooms, to ensure the ability to safely shutdown the unit in the event of a fire. There was no need for the fire retardant properties of the wall while the unit was shutdown eliminating the need for shutdown capability.

If a fire occurred, the probability of it propagating through the opening in the wall is negligible because:

The size of the opening is very small in comparison to the area of the entire wall.

The location of the opening is adjacent to and just above a door where there is little or no combustible material within close proximity of either side of the opening.

The conduit travels along the surface of the wall then turns 90 degrees, penetrates the wall, and turns 90 degrees once more prior to entering a junction box. Additionally, there are conduit fittings on each side of the opening. This partially blocks the opening.

REC FORM 356A. (6-89)	U.S.	NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3	'
		(LER)	EXPIRES: 4/30/0 FIMATED BURDEN PER RESPONSE FORMATION COLLECTION REQUES COMMENTS REGARDING BURDEN EST AND REPORTS MANAGEMENT BRANC REGULATORY COMMISSION, WASHING THE PAPERWORK REDUCTION PROJE OF MANAGEMENT AND BUDGET, WASH	TO COMPLY WTH THIS T: 50.0 HRS. FORWARD IMATE TO THE RECORDS H (P-5301, U.S. NUCLEAR STON, DC 20555, AND TO STON, DC 20555, AND TO STOT (1150-0104) OFFICE
ACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
			YEAR SEQUENTIAL REVISIO	R
Oconee Nuclear	r Station, Unit 3	0 5 0 0 0 2 8 7	9 1 - 0 0 4 - 0	0 0 8 0 0 18
EXT (If more spece is required,	use additional NRC Form 385A's) (17)			- <u></u>
	Each penetration room co provide early warning o initiation of fire figh Operator log showed no o during the period of ind	f any fire, thereby a ting activities. Rev degradation of fire o	allowing for the view of the Reactor	1
	Operations and Security Rooms a minimum of twice providing an opportunity	e per day during the:	ir daily rounds,	
the is h inop	efore, since the probabil opening is remote, the li igh, and the fact that no erability, the health and result of this event.	kelihood of the early fire occurred during	y detection of a fire g the period of	
	:			
	· ·		•	
	•			
			•	
	•			
				·