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ACCESSION NBR:	9207270114	DOC.DATE:	92/07/16	5 NOTARIZE	D: NO	DOCKET #
FACIL:50-269	Oconee Nuclea	r Station,	Unit 1,	Duke Power	Co.	05000269
AUTH.NAME	AUTHOR A	FFILIATION			•	. • .
BENESOLE, S.G.	Duke Powe	r Co.			· · ·	
HAMPTON, J.W.	Duke Powe	r Co.	·			
RECIP.NAME	RECIPIEN	T AFFILIAT	ION			

SUBJECT: LER 92-006-00:on 920616, discovered that max TS SR of 45 days for incore detector & core exit thermocouple instrumentation violated due to inappropriate action.Test responsibilities clarified & applicable TS reviewed.W/920716 ltr.

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

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J.W. HAMPTON Vice President (803)885-3499 Office (704)373-5222 FAX



DUKE POWER

July 16, 1992

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

Subject: Oconee Nuclear Site Docket Nos. 50-269, -270, -287 LER 269/92-06

Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a)(1) and (d), attached is Licensee Event Report (LER) 269/92-06, concerning a violation of a Technical Specification surveillance requirement.

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,

J. W. Hampton Vice President

/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. L. A. Wiens Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, DC 20555

Mr. P. E. Harmon NRC Resident Inspector Oconee Nuclear Site INPO Records Center Suite 1500 1100 Circle 75 Parkway Atlanta, Georgia 30339

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

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ABSTRACT

At 0900 hours on June 16, 1992, with Unit 1 at 100 percent full power, it was discovered that the maximum Technical Specification surveillance requirement of 45 days had been exceeded by two days for the Unit 1 Incore Detector and Core Exit Thermocouple Instrumentation. The Unit 1 Systems Reactor Engineer and Operations Test Supervisor discovered the error while updating the surveillance schedule program. The surveillance was last performed on April 30, 1992 and was due again no later than June 14, 1992. The results of the completed test indicated that the instrumentation was operable during this time period. The root cause for this event is inappropriate action, no action taken when required because the need was not recognized. Significant contributing causes were management deficiency; 1) deficient communication, inadequate groups interface and 2) training, less than adequate training given. The major corrective actions taken were the clarification of test responsibilities and review of the applicable Technical Specification requirements.

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The Incore Monitoring System [EIIS:IQ] provides neutron flux detectors to monitor core performance. Incore self-powered neutron detectors measure the neutron flux in the core to provide a history of power distributions during power operation. Data obtained provides power distribution information and fuel burnup data to assist in fuel management decisions. The plant computer provides normal system readout and a backup readout system is provided for selected detectors. This system has no safety actuation functions and provides indication only. However, Technical Specification 3.5.4 (Incore Instrumentation) requires incore detectors to be operable at or above 80 percent of power allowable for the existing reactor coolant pump combination.

Core Exit Thermocouple (CET) instrumentation [EIIS:IM] is a component of the Inadequate Core Cooling Monitoring System which is a subcomponent of the Accident Monitoring Instrumentation System. The CET instrumentation consists of two trains which have 12 qualified core exit thermocouples each which are used to calculate and display thermal conditions across the core. This system not only has the ability to identify existing degraded conditions, but also provides anticipatory alarms of imminent degraded conditions based on the status of equipment and systems. This defense-indepth approach enables the operator to respond and prevent degraded core cooling conditions. Technical Specification 3.5.6 (Accident Monitoring Instrumentation) requires that two out of two channels of the qualified core exit thermocouple trains (5 cut of 12 CETs per train) be operable whenever the Unit is above hot shutdown conditions.

Section 4 of the Technical Specification (Surveillance Requirements) specifies that the Incore and Core Exit Thermocouple instrumentation surveillance is to be performed monthly, with a maximum allowable frequency between surveillances of 45 days.

Currently, procedure PT/O/A/0302/06 (Review and Control of Incore Instrumentation Signals) is used to verify compliance with Technical Specifications 3.5.4 and 3.5.6 operability requirements for incore and CET monitoring instrumentation.

The method used to schedule and track surveillance performance and completion is the computer-based Preventive Maintenance Report. This program provides a means to determine when a surveillance was last performed, the next due date, and the latest acceptable (grace period) completion date. The surveillance completion date is entered into the program where it becomes the last performed date. The Operations Test Supervisors use the last surveillance completion date to schedule the next surveillance due date.

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EVENT DESCRIPTION

On November 1, 1991, Duke Power Company reorganized and the Performance section was divided into two groups. The Performance Reactor Engineers reported to the Systems Engineering group and the Performance Test Supervisors reported to the Operations group. Performance Technicians had responsibility for performing PT/O/B/0302/06 (Review and Control of Incore Instrumentation Signals). The Test Supervisor scheduled the test and notified the technicians when the test was due. The Reactor Engineers were responsible for reviewing the completed procedure and signing the "Procedure Completion Approved" portion of the Procedure Process Record. At this time there was no Technical Specification frequency requirement associated with this test procedure.

At the time of the reorganization a meeting was held between the Systems Reactor Engineers and Operations Test Supervisors to discuss Procedures and who would take responsibility for them. During this discussion it was determined that the Systems Reactor Engineers would take responsibility for performing PT/0/B/0302/06, while the Operations/Performance Technicians would continue to have responsibility for performing the Technical Specification surveillance frequency related procedure, PT/0/A/0302/04 (Backup Incore Detector System Verification).

On November 6, 1991, PT/O/B/0302/06 was completed for the last time by the Operations Test Technicians.

From November 25, 1991, to January 30, 1992, the Unit 1 Systems Reactor Engineer, performed the PT/0/B/0302/06 on schedule. For the months of November and December the Operations Test Supervisor informed him of the surveillance due dates. Towards the end of December, during a discussion between the Unit 1 Systems Reactor Engineer and the Operations Test Supervisor it was decided that Operations would no longer schedule the surveillance or notify the Unit 1 Systems Reactor Engineer when the surveillance was due. The surveillance associated with PT/0/A/0302/04 continued to be performed on schedule during this time period.

On March 2, 1992, Procedures, PT/O/B/0302/06 and PT/O/A/0302/04 were combined to form PT/O/A/0302/06. The Technical Specification frequency requirements that were applicable to FT/O/A/0302/04 were transferred to the revised procedure, PT/O/A/0302/06. The Systems Reactor Engineers continued to maintain responsibility for performing the revised procedure, PT/0/A/0302/06.

From March 6, 1992 to April 30, 1992, PT/O/A/0302/06 was performed in accordance with the Technical Specification frequency requirements by the Unit 1 Systems Reactor Engineer without any due date notification from the Operations Test Supervisor. The test was due again on May 30, 1992, with a maximum acceptable date for completion of June 14, 1992.

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• • •	On June 15, 1992, the Unit 1 Sys subject test with Unit 1 at a 10				conduct	ing the)		•
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	One of the contributing causes deficient communication, inadequ 1991, a meeting was held to disc the Systems Reactor Engineering all required tests would continu meeting it was decided that the responsibility for performing PT Instrumentation Signals). The S	uate groups cuss procedu and Operati ue to be pro Systems Rea F/O/B/0302/0	interfac re and t ons Test perly pe ctor Eng 5 (Revie	e. Arou est resp groups rformed. ineers w w and Co	nd Novem onsibili to ensur During ould tak ontrol of	ber 1, ties fo e that this e Incore	2		

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that it was also decided that the Operations Test Supervisors would continue to maintain this test procedure on the Preventive Maintenance Report (PMRPT), schedule the tests, notify the Systems Reactor Engineers when the tests were due, and update the PMRPT. However, the Operations Test Supervisors did not understand that they would be responsible for notifying the Systems Reactor Engineers when the tests were due. The Operations Test Supervisors did, however, continue to notify the Systems Reactor Engineers of the tests due dates, except for the Unit 1 Operations Test Supervisor. Generally, the Operations Test Supervisors continued to inform the Systems Reactor Engineers of the test due dates as a result of a "self-imposed" responsibility. The communications during this meeting were not documented, therefore it can not be determined how well these responsibilities were communicated. It is clear that the communication was not adequate to ensure that the Operations Test Supervisors would continue to be responsible for scheduling the test and notifying the Systems Reactor Engineers when the tests were due.

Another contributing cause of this event was a less than adequate verbal communication between the Unit 1 Systems Reactor Engineer and the Unit 1 Operations Test Supervisor. Near the end of December 1991, a conversation took place between these two individuals where the Operations Test Supervisor understood that he would no longer need to inform the Systems Reactor Engineer when the test was due. The Systems Engineer stated that he did not remember the conversation very well, but he is sure that he did not intend to convey that message. This conversation occurred prior to the Technical Specification frequency requirements becoming applicable to the subject test. If this conversation had been properly communicated, the Unit 1 Test Supervisor may have continued to track the test and notified the Unit 1 Systems Reactor Engineer prior to exceeding the maximum surveillance completion date.

Another contributing cause of this incident was management deficiency, less than adequate training of the Unit 1 Systems Engineer on the Technical Specification surveillance frequency requirements. According to the Systems Reactor Engineer Supervisor, there was no communication put out to the Reactor Engineers that the Technical Specification surveillance frequency requirements are now applicable for this test. He assumed that the Reactor Engineers were either already familiar with those requirements or would, on their own initiative, become familiar with them if they were not. The Unit 1 Systems Reactor Engineer stated that he was not familiar with the Technical Specification frequency requirements. He simply knew that the test was due on a monthly basis from past experience. It also appears that the Engineer did not recognize a need to be familiar with those requirements because he was dependent on the Unit 1 Test Supervisor to ensure that the test was performed within the required time frame. It is a good work practice for a supervisor to ensure that his personnel have the knowledge, skills, and tools to properly do the task prior to assigning the task to them. If the Unit 1 Systems Reactor Engineer would have been familiar with the Technical Specification frequency requirements this event probably would not have occurred.

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Behavioral Reactor Eng	factors that influenc ineer were:	ed the decisions of	the Unit 1 Systems	
1.		The Unit 1 Systems 1 of priority work du	Reactor Engineer had Iring the test's due	an
2.	to performing the te	est around the 29th of during that time fr	actor Engineer was us of each month, but co rame on this occasion	uld
3.	Engineer was unaware	propriate actions to	Systems Reactor pecification frequency take when the test i	
4.	Reactor Engineer did		d; The Unit 1 System owledge of the test's this information was	
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is not NPRD	S reportable. Also,	this event did not a	alfunction, therefore result in the release or personnel injurie	of
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1.	tracking the comple and for notifying the procedure is due to Systems Engineers Re frequency has expire	he Systems Engineers be performed. Inclue eactor Group if and w ed as well as advise	D6, for updating PMRP Reactor Group when t uding notifying the when the normal 30 da	he
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2.	The Systems Reactor	Engineers are r	esponsibl	e for peri	Eorming	
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3.	If the 45 day maximu	m time interval	expires	prior to U	Unit	
	startup, the Systems	Reactor Engine	er must p	perform the	9 1 1 1	
	procedure and verify	it prior to th	e Unit ex	ceeding 80) percent	· · · ·
	of the power allowab	le for the exis	ting Read	tor Coola	nt Pump	
	combination. Likewi					
	soon after startup,	the same requir	ement is	true. If	the Unit	
	is above 80 percent combination when the					en e
	of the incore detect					
	procedure immediatel	v or power will	have to	be reduced	d below 80	0
	percent of the allow	vable Reactor Co	olant Pum	np combina	tion	the states of
	within 8 hours.		•••	•		
			. ,			
4.	The Unit 1 Systems F					
	applicable Technical	Specification	requireme	ents. In a	addition,	•
	the Systems Reactor	Engineers Super	visor emp	phasized to	o the	
	Engineer to have a m				nere is	· · ·
· · · · · ·	doubt as to what app	propriate action	S LO LAKE	2.•.		
Planned					· · · ·	
			÷.			· * · · · -
1.	The Systems Reactor	Engineering Gro	up will 1	revise	1. A	,
	PT/0/A/0302/06 to in				vide a	
	place to record the	last procedure	completio	on date.	The	· · · ·
· · · · · ·	Systems Reactor Engi	ineer responsibl	e for per	rforming t	he	•
	procedure will updat	te the enclosure	each tìr	ne the pro-	cedure is	
	completed.	•	-			
2.	The Systems Reactor	Engineering Gro	un will r	oursue a r	evision t	o
2.	the Operations' "Ope	eration at Power	" proced	ure to inc	lude a	
	step to verify the c	operability of t	he incore	e detector	system	
· ·	prior to exceeding 8	30 percent of th	e allowal	ole power	for the	ю.
	existing Reactor Cod	olant Pump combi	nation.	-		
	· · · · · · · · · · · · · · · · · · ·		· · ·		•	
					· .	
	TVCTC		1 - D	·	· ·	•
SAFETY ANA	<u> 71919</u>		2.5			
The Incore	Instrumentation Syste	em is not a safe	tv-relat	ed system	This	
svstem ic	not required to be ope	erable below 80	percent	of the all	owable	
power for	the existing Reactor (Coolant Fump ope	rating c	ombination	. Data	
obtained f	rom this system is use	ed to verify that	t the ac	tual core	power	·
	_	•		-		
1					1	

NRC Form 366A (6-89)

NRC FORM 366A U.S. NUCLEAR REGULATORY COMMISSION (6-89)	APPROVED OMB NO. 3150-0104
LICENSEE EVENT REPORT (LER) TEXT CONTINUATION	EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P.530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE. PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.
FACILITY NAME (1) DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
Oconee Nuclear Station, Unit 1 0 5 0 0 0 2 6 9	YEAR SEQUENTIAL REVISION NUMBER
TEXT (If more space is required, use additional NRC Form 308A/s/ (17)	
distributions for a fuel cycle are in reasonable agr predicted power distributions for the cycle. The pu comparison is to verify that the design methods used specific operating data are acceptable. The Core Exit Thermocouple (CET) Instrumentation is consisting of 24 qualified CETs. This system consis each train having 12 qualified thermocouples. The C measurement of Reactor Coolant System (RCS) temperat and also feed into the core subcooled margin monitor margin is indicated on both Inadequate Core Cooling Operator Aid Computer Video, and a digital control b RCS subcooled margin is an important parameter in th accidents. During a small break loss of coolant acc instructed to trip the Reactor Coclant Pumps on a lo margin. During a steam generator tube rupture accid the subcooled margin to assist in controlling the pr pressure difference while the plant is being cooled subcooled margin was not functioning, the operators use the RCS loop subcooled margin indications to per The CETs also play an important role in the mitigati design basis accidents. The onset of inadequate coo	a safety-related system ts of two trains, with ETs provide a direct ures at the core exit s. Core subcooled plasma displays, the oard meter. We mitigation of certain tident, the operator is less of the subcooled lent, the operator uses imary to secondary down. If the core exit would still be able to form these functions. on of certain beyond ling conditions is
 indicated by superheated CET temperatures. Thus, th CETs as an entrance condition to the inadequate cool Emergency Operating Procedure. If the CETs are unav temperature measurements would provide another indic conditions within the RCS. However, due to their lo indications are not as effective in monitoring core In addition, the reactor vessel head level and wide indications are useful in assessing whether or not a Although the test for these systems was completed tw required interval, the results indicated that the in operable. Thus, this instrumentation would have bee accident had occurred. Also, if the CETs had failed interval, it is very likely that the operators would significant failures in the system through various c for the subcooled margin. It should also be noted t 24 qualified CETs, 23 non-qualified CETs exist. It thermocouples would also be available during an acci if the qualified thermocouples were unavailable. 	ing portion of the vailable, the hot leg vation of superheated ocation, the loop conditions as the CETs. range hot leg level dequate cooling exists. To days past the estruments were en available if an a during the calibration a have recognized control room indications hat in addition to the is likely that these dent and could be used
In conclusion, it was determined that the health and was not compromised by this event. Also, this event release of radioactive materials, radiation exposure injuries.	did not include any