

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
McGuire Nuclear Station, Unit 2	0 5 0 0 0 3 7 0	1 OF 0 2

TITLE (4)	
Leak Check Of Incore Detectors Not Performed Within 31 Days Prior To Installation	

EVENT DATE (8)										LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)									
MONTH	DAY	YEAR	YEAR		SEQUENTIAL NUMBER		REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES					DOCKET NUMBER(S)									
0	1	1984	84	-	007	-	000	3	2	684						05000									
0	1	1984	84	-	007	-	000	3	2	684						05000									

OPERATING MODE (8)		4		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)									
POWER LEVEL (10)	0 0 0	20.402(b)		20.406(e)		80.73(a)(2)(iv)		73.71(b)					
		20.406(a)(1)(i)		80.38(a)(1)		80.73(a)(2)(v)		73.71(e)					
		20.406(a)(1)(ii)		80.36(a)(2)		80.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)					
		20.406(a)(1)(iii)	X	80.73(a)(2)(i)		80.73(a)(2)(viii)(A)							
		20.406(a)(1)(iv)		80.73(a)(2)(ii)		80.73(a)(2)(viii)(B)							
		20.406(a)(1)(v)		80.73(a)(2)(iii)		80.73(a)(2)(x)							

LICENSEE CONTACT FOR THIS LER (12)		
NAME	TELEPHONE NUMBER	
Philip B. Nardoci, Licensing Engineer	AREA CODE	
	7 0 4	3 7 3 1 7 4 3 2

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS	

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (18)

Prior to installation of two incore detectors on January 19 and February 10, 1984, a source leak test was not performed. Pursuant to Technical Specifications Section 3.7.9, a leak test is required within 31 days prior to installation of the detector in the reactor core.

This incident is attributed to Personnel Error with a contributing Procedural Deficiency, because the "Movable Incore Detector Maintenance" procedure did not require a signoff when personnel were contacted to perform the leak test. Unit 2 was in Mode 4 at the time this incident was discovered.

The procedure will be revised to require a signoff at the step requiring a leak check on the new detector. This incident will be covered with all appropriate personnel.

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PDR ADCK 05000370
S PDR

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1) McGuire Nuclear Station, Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 3 7 0	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 4	- 0 0 7	- 0 0	0 2	OF 0 2

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

On December 19, 1983 and February 6, 1984, Instrument and Electrical (IAE) technicians obtained two incore detectors [EII:XE] which were to be used only if detectors in the core needed to be replaced. The detectors were left boxed and stored for several days while Westinghouse personnel cleaned the thimbles on the installed detectors. IAE personnel planned to have Health Physics personnel perform a source leak test (as required by the "Movable Incore Detector Maintenance" Procedure) after they determined if the detectors would be used. IAE personnel stated that because of the length of time between obtaining the detectors and finally installing the detectors, they forgot to contact Health Physics personnel to perform the leak test. Therefore, the detectors were installed (on January 19, 1984 and February 10, 1984) in the Unit 2 Reactor Core without a leak test being performed within 31 days prior to installation as required by Technical Specification 3.7.9. The detectors were identified by H.P. personnel as not having a leak test when they performed the semi-annual "Physical Inventory and Leak Test of Sealed Sources" Procedure on February 20, 1984.

This incident is attributed to Personnel Error with a contributing Procedural Deficiency, because the "Movable Incore Detector Maintenance" Procedure did not require a signoff when personnel were contacted to perform the leak test. Unit 2 was in Mode 4 at the time this incident was discovered. This event is similar to LER 369/84-04.

The "Movable Incore Detector Maintenance" Procedure will be revised to require a signoff at step 10.7.1 (Have Health Physics perform a leak test on the new detector). The procedure will also be revised to include the name of the Health Physics Technician contacted and a copy of the source leak test survey sheet to be included in the IAE procedure file. This incident will also be covered with all IAE personnel.

The periodic test procedure "Procedure for Physical Inventory and Leak Test of Sealed Sources" verifies the location and the integrity of the source encapsulating material with reference to the Code of Federal Regulation Title 10, Part 70.39C. This section limits the amount of radioactive leakage allowable from sealed sources. A satisfactory leak test was performed on the Incore Detector installed on February 10, 1984 upon receipt of the detector on November 11, 1983. The Incore Detector installed on January 19, 1984 was satisfactorily leak tested in August 1983. Although no leak test was performed prior to the installation of these two incore detectors, no evidence of physical damage was found upon inspection of these detectors prior to installation. Incore detectors do not contact primary coolant. The health and safety of the public were unaffected by this incident.

DUKE POWER COMPANY

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VICE PRESIDENT
NUCLEAR PRODUCTION

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March 26, 1984

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

Subject: McGuire Nuclear Station, Unit 2
Docket No. 50-370
LER 370/84-07

Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a)(1) and (d), attached is Licensee Event Report 370/84-07 concerning leak check of incore detectors not being performed within 31 days prior to installation which is submitted in accordance with §50.73(a)(2)(i)(B). This event was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

H. B. Tucker / *HT*
Hal B. Tucker

PBN:glb

Attachment

cc: Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
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Atlanta, Georgia 30303

Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
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Mr. W. T. Orders
NRC Resident Inspector
McGuire Nuclear Station

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