

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) McGuire Nuclear Station, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 6 9	PAGE (3) 1 OF 0 2
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TITLE (4)

Leak Check of Incore Detector Not Performed Within 31 Days Prior to Installation

EVENT DATE (5)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)									
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)							
1	1	17	8	3	8	4	0	0	3	2	6	8	4	0	5	0	0	0

OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)											
	20.402(b)			20.406(e)			50.73(a)(2)(iv)			73.71(b)		
	20.406(a)(1)(i)			50.38(e)(1)			50.73(a)(2)(v)			73.71(c)		
	20.406(a)(1)(ii)			50.38(e)(2)			50.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
	20.406(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(viii)(A)					
20.406(a)(1)(iv)			50.73(a)(2)(ii)			50.73(a)(2)(viii)(B)						
20.406(a)(1)(v)			50.73(a)(2)(iii)			50.73(a)(2)(ix)						

LICENSEE CONTACT FOR THIS LER (12)

NAME Phillip B. Nardoci, Licensing Engineer	TELEPHONE NUMBER 7 0 4 3 7 3 - 7 4 3 2
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO	EXPECTED SUBMISSION DATE (15)	MONTH DAY YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

Prior to installation of an incore detector on November 17, 1983, 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. The procedure, "Movable Incore Detector Maintenance", did not require a signoff when personnel were contacted to perform the leak test. Unit 1 was in Mode 1 at 96% power at the time of this incident.

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 ADOCK 05000369  
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)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
McGuire Nuclear Station, Unit 1	0 5 0 0 0 3 6 9	8 4	- 0 0 4	- 0 0	0 2	OF	0 2

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

On November 17, 1983, instrument and electrical (IAE) personnel obtained an incore detector [EIIS:XE] which was to be installed in the Unit 1 reactor core. IAE personnel stated that they contacted Health Physics personnel to perform a leak test on the detector as required by the "Movable Incore Detector Maintenance" procedure, and were informed that no leak test was necessary. Health Physics records indicate that no leak test was performed. Therefore, prior to installation of the incore detector on November 17, 1983, 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. Performance of the "Procedure for Physical Inventory and Leak Test of Sealed Sources" on February 20, 1984 discovered that the detector had been installed on November 17, 1983. Subsequent investigation of all records and surveys determined that the detector had not been leak checked prior to installation. Health Physics personnel stated that they did not recall any communications with IAE personnel concerning installation of this detector.

This incident is attributed to Personnel Error, with a contributing Procedural Deficiency. The procedure, "Movable Incore Detector Maintenance", did not require a signoff when personnel were contacted to perform the leak test. Unit 1 was in Mode 1 at 96% power at the time of this incident. This event is similar to LER 370/84-07.

The "Movable Incore Detector Maintenance" procedure will be revised to require a signoff at step 10.7.1. (Have Health Physics perform a leak check 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 Regulations 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 in August 1983. Although no leak test was performed prior to the installation of this incore detector, no evidence of physical damage was found upon inspection of this incore detector 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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HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

March 26, 1984

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

Subject: McGuire Nuclear Station, Unit 1  
Docket No. 50-369  
LER 369/84-04

Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a)(1) and (d), attached is Licensee Event Report 369/84-04 concerning a leak check of an incore detector 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:dyh

Attachment

cc: Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
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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

IE-22  
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