

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) McGuire Nuclear Station - Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 7 1 0										PAGE (3) 1 OF 0 3			
TITLE (4) Discovery of Wrong Valve Stem in Valve 2NI-10B																							
EVENT DATE (5)			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	4	2	5	8	5	8	5	0	0	8	0	0	0	7	1	2	8	5	0	5	0	0	0
OPERATING MODE (9) 5		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)																					
POWER LEVEL (10) 0 0 0		20.402(b)				20.405(c)				50.73(a)(2)(iv)				73.71(b)									
		20.405(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)									
		20.405(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
		20.405(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)				Voluntary									
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)													
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)													
LICENSEE CONTACT FOR THIS LER (12)												TELEPHONE NUMBER											
NAME Jerry Day - Licensing												AREA CODE 7 0 4 3 7 3 - 7 0 3 3											
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																							
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPD	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPD														
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) (16)

On April 25, 1985, while repairing valve 2NI-10B (NC-Reactor Coolant System - Cold Leg Injection from NV-Chemical and Volume Control System) for leaking, it was discovered that the valve contained a single threaded stem instead of the required double threaded stem. The stem was taken out and replaced with a double threaded valve stem.

Unit 2 was in Mode 5 (cold shutdown) at the time of the discovery.

This incident is attributed to a Manufacture Deficiency, because the manufacturer sent a single threaded valve stem instead of a double threaded valve stem.

The single threaded valve stem would have slowed valve actuation, but not prevented it. This valve was in parallel with 2NI-9A, a flowpath to the reactor in the event a safety injection signal would exist.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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 5	- 0 0 8	- 8 5	0 2	OF	0 3

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

On April 25, 1985, while repairing valve 2NI-10B (NC-Reactor Coolant System - Cold Leg Injection from NV-Chemical and Volume Control System) for leaking, it was discovered that the valve contained a single threaded stem instead of the required double threaded stem. The stem was taken out and replaced with a double threaded valve stem.

Valve 2NI-10B requires a double threaded valve stem. In April 1983, the valve actuator was changed and the valve designation was changed from 4J032 to 4J036.

In 1979, a spare valve stem to fit a 4 inch, Walworth gate valve designated 4J032 was ordered. A valve stem arrived in December 1979 and was accepted by Q.A. on December 27, 1979.

The valve stem was stored in the Q.A. warehouse under sequence number 202-676313Q until mid 1981. Then, the materials catalog was revised to reflect a company wide system. Sequence number 202-676313Q was changed to identification number 244100163N. However, during this revision, the valve stem for a 4J020 was cataloged with identification number 244100163N. Therefore, there existed one identification number which corresponded to two part numbers. One part number was for a 4J020 valve (manually operated) and the part number was for a 4J032 (4J036) valve (motor operated). This discrepancy existed at the time of this incident.

When personnel went to get a new stem out of the Q.A. warehouse, no drawing was used for reference. Materials personnel used the computer to retrieve the part number and identification number for a stem to place in valve 2NI-10B. Since the valve stem for a 4J020 corresponded to 244100163N, it was stored in the bin for items with identification number 244100163N, and was retrieved as the supposed correct item.

However, the valve stem removed from valve 2NI-10B was single threaded. The vendor not only originally sent a valve stem for a 4J020 valve instead of a 4J032 (4J036) valve; they sent the wrong valve stem for a 4J020 valve.

CORRECTIVE ACTION:

Immediate: None.

Subsequent: A double threaded valve stem and drive bushing was installed in 2NI-10B to replace its single threaded valve stem and drive bushing.

The purchase requisition system has been changed to reflect the proper identification number and part number for the 4J032 (4J036) valve stem.

Planned: Walworth products will be reviewed to ensure the parts are cataloged properly, are actually the correct parts, and also to verify if the need exists to conduct a more thorough and complete materials review.

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

SAFETY ANALYSIS:

The single threaded valve stem would have slowed the actuation of 2NI-10B to approximately half of its normal speed (and would not have met its required response time of ten seconds) during an emergency if the improper valve stem had not been detected. However, the valve would have higher torque and should have had no trouble opening. This valve is also in parallel with 2NI-9A, so there would be a flowpath to the reactor in the event of a safety injection signal. Unit 2 did not rise above Mode 5 before valve 2NI-10B was replaced with the proper valve stem. Since this is a path for adding boron, a leaking 2NI-10B would actually have hindered the reactor from increasing power. The health and safety of the public were not affected by this incident.

DUKE POWER COMPANY

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VICE PRESIDENT
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July 12, 1985

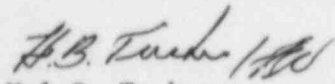
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U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: McGuire Nuclear Station, Unit 2
Docket No. 50-370
LER 370/85-08

Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a)(1) and (d), attached is Licensee Event Report 370/85-08 concerning the discovery of the wrong valve stem in a safety injection valve. This is an informational (voluntary) LER. This event was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,


Hal B. Tucker

JBD:smh

Attachment

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Document Control Desk
July 12, 1985
Page 2

cc: Dr. J. Nelson Grace, Regional Administrator
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