

Northeast Nuclear Energy

Rope Ferry Rd. (Route 156), Waterford, CT 06385

Millstone Nuclear Power Station Northeast Nuclear Energy Company P.O. Box 128 Waterford, CT 06385-0128 (203) 444-4300 Fax (203) 444-4277

The Northeast Utilities System

Donald B. Miller Jr., Senior Vice President - Millstone

Re: 10CFR50.73(a)(2)(i)

April 14, 1994 MP-94-264

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

Reference: Facility Operating License No. DPR-65 Docket No. 50-336 Licensee Event Report 94-004-00

Gentlemen:

This letter forwards Licensee Event Report 94-004-00 required to be submitted within thirty (30) days pursuant to 10CFR50.73(a)(2)(i).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

Donald B. Miller, Jr. Senior Vice President – Millstone Station

DBM/EF:ljs

Attachment: LER 94-004-00

CC: T. T. Martin, Region I Administrator
P. D. Swetland, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3
G. S. Vissing, NRC Project Manager, Millstone Unit No. 2

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On March 19, 1994, at 1918 hours, with the plant in Mode 1 at 99.8% power, an adequate post work ASME

leakage test was not performed on 2-FW-43A, one of two Auxiliary Feedwater Regulating Valves (AFRVs), as required. This event was discovered on March 21, 1994, at 1100 hours during a review of the test results. The test was conducted with the valve in the incorrect, closed position.

The pre-approved test plan requirements, for the valve to be open during leakage testing, were based on an evaluation of the valve's internal components. During the post work valve testing, a change to the test method was made by the Shift Supervisor and Test Coordinator without consulting the test plan originators. This change was based solely on the drawing of the valve included in the Maintenance AFRV overhaul procedure. The drawing showed the valve bonnet exposed to pressure with the valve in both the open and closed position. Therefore, the valve was leak tested using Auxiliary Feedwater pump discharge pressure with the valve closed. On March 21st, during closeout documentation review, the test method change was called into question. The valve vendor was contacted due to questions concerning the Maintenance procedure drawing. It was determined that the drawing was not representative of the valve installed. The valve was immediately declared inoperable, bypassed and isolated. Following re-testing in the open position, and with no leakage detected, the valve was returned to operable status.

The root cause is considered to be a combination of personnel error and procedural deficiency. A personnel error occurred when the Shift Supervisor and Test Coordinator changed the test method without consulting the test plan originators. Although this is not required by procedure, good work practices dictates that the originator and approvers of the test plan be consulted. The inaccurate drawing in the Maintenance Procedure is considered a procedural deficiency. The drawing is being changed to reflect the installed valve. Drawings in other component specific procedures for safety related equipment are to be reviewed for accuracy.

NRC F (5-92	U.S. NUCLEAR REGULAT	APPROVED BY OMB NO. 3150-0104 EXPIRES: 5/31/95 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 60.0 HRS FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (\$150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.										
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		1202 Sec. 1		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER						
	Millstone Nuclasir Power Station Unit 2	05000336		94	- 004 -	00	02	OF	05			
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I.	Description of Event											
	On March 19, 1994, at 1918 hours, with 1 leakage test was not performed on 2-FV (AFRVs), as required. This event was dis test results. The test was conducted with	W-43A, one of tw covered on March	o Auxilia n 21, 199	ary Fe 94, at	edwater Reg 1100 hours c	ulating Va	lves					
	The pre-approved test plan required that evaluation of the valve's internal compor- method by the Shift Supervisor and the T change was based solely on the drawing procedure (MP 2705A5). The drawing in- with the valve in the open or closed posi- valve in the closed position, the Shift Sup would be satisfied. The VT - 2 examiner value inspection was performed for valve bon- accordance with Engineering procedure status at 1918 hours, March 19, 1994. Or method change was called into question valve component evaluation that resulted He stated that based on the known cond- of the cage, see attached drawings), the March 21st. Immediately following the di- removed from service, re - tested and pla- detected during the retest.	nents. During the p Test Coordinator w g of the valve inclu dicated that the va- tion. Since surveil pervisor and Test ( was contacted and net and packing le 21218 was comp in March 21st, duri b. Differences exist d in the test plan. d in the test plan. d in the test plan. d rawing was in en- scovery of the ina aced in service by	oost wor vithout c ided in t alve bon lance te Coordini d after th akage. I leted an ing the c ted betw The valv nternals rror. This dequate 1427 ho	k test consult he Ma st SP ator fe he red The A hd the closed veen t re ven s (i.e., s infor a test, ours t	ting, a change ting the test p aintenance Al nd packing w 2610A alread alt the condition uired time into SME required valve was reto valve was reto but document he procedure dor was cont sealing threat mation was r the valve was he came day.	e was mai blan origin FRV overfould be p ly pressuit ons for bo rerval, a V d docume turned to ation revi- acted for ds only a eceived a s declared No leaka	de to thator. haul ressu rizes the opth test opth test opth test opth test operation operation operation and the clarified t the b t 1100 d inop ige was	the te The rized he sts n in ble e test he cation cottor ) on erabl	est t n. m			
	There were no automatic or manually initiated safety systems actuated as a result of this event.											
H.	Cause of Event											
	The root cause of the event is considered deficiency. A personnel error occurred w test method without consulting the test p work practices dictates that the originato drawing in the Maintenance procedure is specific procedure contained a "typical"	then the Shift Sup blan originator. Alth or and approvers o s considered a pro	ervisor a hough th of the tes ocedural	and th his is i st plar I defic	e Test Coord not required to be consulte siency, in that	inator cha by proced d. The ina this comp	anged lure, g accura conen	ite it				
111.	Analysis of Event											
	Based on event investigation, a determin following repair without an adequate ASI 50.73(a)(2)(i)(B), any operation or condit Specification 4.0.5 requires In – service T accordance with Section XI of the ASME 40 hours.	ME required leaka tion prohibited by festing of ASME C	ige test. the plar ode Cla	This nt's Te ss 1,2	is reportable ochnical Spec 2, and 3 valve	under the ifications. s to be pe	criter Techi erform	ia of nical ied in	1			
	There were no safety consequences as a present during the retest.	a result of this eve	nt base	d on t	he fact that n	o leakage	was					

## U.S. NUCLEAR REGULATORY COMMISSION

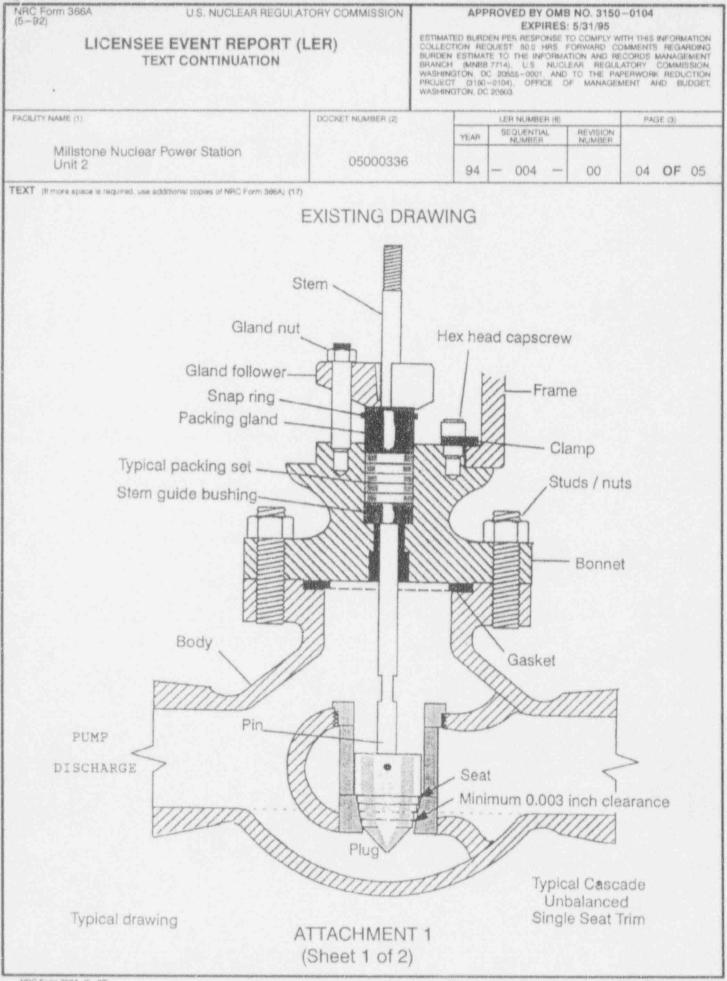
## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

NRC Form 366A (5-92)

## APPROVED BY OMB NO. 3150-0104 EXPIRES: 5/31/95

EAPTIMES: 5/31/95 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714). U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON. DC 20556-D001, 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)					
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IV.	Corrective Action													
	Following the event discovery on March 21, 1994, immediate corrective action was to declare the valve inoperable. The valve was then bypassed and isolated for re-testing.													
	The valve drawing in the Maintenance procedure is being corrected to reflect the installed valve internals. Other component specific procedures for safety related equipment are to be reviewed to verify drawing accuracy.													
	Since Engineering procedure 21218 is a generic leak test procedure using normal system alignments, no provision was made in it to document specific test conditions. In this event, test requirements were documented on a Work Implementation Plan (WIP), a form developed as a temporary aid to communications and sequencing of work. The use of a WIP is not procedurally controlled, however, guidelines are provided for its use. These guidelines do provide for changes, however, not through a formal change process, such as reviews and approvals. Although not a cause of the event, documentation of specific test conditions in the generic procedure for ASME leakage testing, may have lead to the basis for the original test conditions through a more formal test change process. Therefore, procedure enhancements to provide for the control of test details for generic tests are being considered.													
V.	Additional Information													
	There were no failed components associated with this event.													
	Similar LERs													
	This event involved an ASME leakage test that was performed inadequately. Similar events only include one event, LER 93-010-00, where a post work in - service leakage test was performed, when an ASME leakage test was required. This also involved equipment returned to service with inadequate testing.													
	EIIS Codes													
	AFW Pumps: BA-P-T147 and BA-P-1075													
	AFRV: BA-FCV-C17													
	AFW system: BA													
	Attachments: MP2702A5 page 26 of 28, Existing Drawing and Required Drawing													



NRC Form 366A (5-92)

