NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

Line	Field	Value
01	Licensee Code (2)	MEMYP1
01	License Number (3)	00-00000-00
01	License Type (4)	41111
01	CAT (5)	
CON'T 01	Report Source (6)	L
	Docket Number (7)	05000309
	Event Date (8)	102182
	Report Date (9)	110482

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 See "A" attached.

Line	Field	Value
09	System Code (11)	FB
	Cause Code (12)	X
	Cause Subcode (13)	Z
	Component Code (14)	XXXXXX
	Comp. Subcode (15)	Z
	Valve Subcode (16)	Z
	LER/RO Report Number (17) — Event Year	82
	Sequential Report No.	033
	Occurrence Code	01
	Report Type	T
	Revision No.	1
	Action Taken (18)	X
	Future Action (19)	X
	Effect on Plant (20)	Z
	Shutdown Method (21)	Z
	Hours (22)	0000
	Attachment Submitted (23)	Y
	NPRD-4 Form Sub. (24)	Y
	Prime Comp. Supplier (25)	L
	Component Manufacturer (26)	P405

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 See "B" attached

Line	Field	Value
15	Facility Status (28)	H
	% Power (29)	000
	Other Status (30)	NA
	Method of Discovery (31)	A
	Discovery Description (32)	OPERATOR OBSERVATION
16	Activity Released (33)	Z
	Content of Release (34)	Z
	Amount of Activity (35)	NA
	Location of Release (36)	NA
17	Personnel Exposures — Number (37)	000
	Type (38)	Z
	Description (39)	NA
18	Personnel Injuries — Number (40)	000
	Description (41)	NA
19	Loss of or Damage to Facility — Type (42)	Z
	Description (43)	NA
20	Publicity — Issued (44)	N
	Description (45)	NA

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PDR ADOCK 05000309
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NRC USE ONLY

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EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (A)

10 While shut down for refueling, during fuel handling in the spent fuel pool, the inner surface of several spent fuel storage cells in one type of spent fuel storage rack (designated Phase I) was observed to be deformed and bulging into the fuel storage space. The deformation is associated with the aluminum clad neutron absorer which forms the storage cell walls.

Further investigations and observations have revealed that in approximately 10% of the Phase I spent fuel storage cells there is some indication that bulging may be present, although these results are preliminary and require confirmation.

Neutronic analysis of the effects of inward and outward bulging indicate substantial safety margin exists even when conservative assumptions are utilized.

The public health and safety is not affected.

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (B)

27 The cause of the observed bulging has not been determined. Plans for corrective action are described below.

One cell exhibiting inward bulging has been removed and is scheduled to undergo examination when refueling activities are complete and the necessary tools and methods have been determined and developed. Since contamination levels on this cell are quite low, this examination can be conducted dry.

Following examination of the bulged cell described above, plans for further actions will be formulated. At that time, a supplement to this report will be filed describing the examination results and conclusions drawn from it, and outlining plans for further corrective actions.

In the long term, these racks are scheduled to be replaced in accordance with Maine Yankee Proposed Change #70 now under NRC licensing review. The replacement racks, some of which are nearly completely fabricated at this time, employ design features intended to reduce the likelihood of the observed bulging (i.e. use of stainless steel and vented neutron absorber enclosures).