

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
Vermont Yankee Nuclear Power Station

DOCKET NUMBER (2)

0 5 0 0 0 2 7 1 1 1 OF 0 2

TITLE (4)

Reactor Scram Due to MSIV Closure

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	1	7	8	4	8	4	0	0	4	0	0	5	0	0	0	0
0	4	1	7	8	4	8	4	0	0	4	0	0	5	0	0	0	0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENT OF 10 CFR 8. (Check one or more of the following) (11)															
POWER LEVEL (10) 1 1 0 1 0	20.402(b)				20.406(a)				80.73(a)(2)(iv)				73.71(b)			
	20.406(a)(1)(i)				80.36(a)(1)				80.73(a)(2)(v)				73.71(a)			
	20.406(a)(1)(ii)				80.36(a)(2)				80.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 306A)			
	20.406(a)(1)(iii)				80.73(a)(2)(i)				80.73(a)(2)(vii)(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)(ix)							

LICENSEE CONTACT FOR THIS LER (12)  
NAME  
James P. Pelletier, Plant Manager

TELEPHONE NUMBER

AREA CODE

8 10 1 2 2 15 1 7 1 7 1 1 1 1

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS
X	SIB	1 ITV	N141117	Y						

SUPPLEMENTAL REPORT EXPECTED (14)  
YES (If yes, complete EXPECTED SUBMISSION DATE) NO  
EXPECTED SUBMISSION DATE (15)  
MONTH DAY YEAR

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

As a result of a malfunction of the pneumatic pilot valve on MSIV-2-80C during bi-weekly partial closure testing the valve went completely shut resulting in a Primary Containment Isolation due to high steam flow in the remaining three steam lines. This inturn caused a reactor scram due to closure of the MSIV's.

The pneumatic pilot valve assembly on MSIV 2-80C was replaced, and proper valve operation verified.

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PDR ADOCK 05000271  
S PDR

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104  
EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Vermont Yankee	0 5 0 0 0 2 7 1 8 4	—	0 0 3	—	0 0 0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 388A's) (17)

On 4-16-1984, bi-weekly, partial closure testing was being performed on the main Steam Isolation Valves (MSIV's) as required by Technical Specifications, Section 4.7.D.1.c. The plant was operating at 100% power steady state, at a reactor pressure and level of 1013 psig, 162 inches respectively. When MSIV-2-80C was tested, the valve continued going shut instead of returning open. Reactor Recirc pump speed was immediately reduced to reduce power and thus reduce steam flow in an attempt to preclude a MSIV isolation. At 0742, a Primary Containment Isolation occurred due to high steam flow (120%) in the other three main steam lines. Reactor Power at this time was 87%. Closure of the MSIV's resulted in a reactor scram and lifting and successful reseating of three primary relief valves. Reactor water level varied during the transient from a low of 124.5" to a high of 184". Reactor pressure reached a high of 1080 psig and at the end of the event, was stable at 930 psig. There were no Emergency Core Cooling Systems actuated during the event.

After shutdown, the pneumatic pilot valve assembly was replaced on MSIV-2-80C, and proper valve operation verified. Inspection of the internals of the removed pilot valve assembly found oil and small foreign particles in the shuttle area causing the valve to stick in the slow close position. The origin of the foreign material is unknown.

A similar problem with the pilot valve on an MSIV which did not result in a scram was reported to the Commission as LER 81-22/3L.



# VERMONT YANKEE NUCLEAR POWER CORPORATION

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VERNON, VERMONT 05354  
VYV-84-216

May 14, 1984

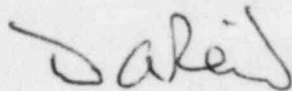
U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

REFERENCE: Operating License DPR-28  
Docket No. 50-271  
Reportable Occurrence No. LER 84-04

Dear Sirs:

As defined by 10CFR50.73, we are reporting the attached Reportable Occurrence as LER 84-04.

Very truly yours,

  
for James P. Pelletier  
Plant Manager

RDP/cjm

cc: Regional Administrator  
USNRC Office of Inspection and Enforcement  
Region I  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

IE22  
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