

**LICENSEE EVENT REPORT (LER)**

FACILITY NAME (1)										DOCKET NUMBER (2)										PAGE (3)			
VERMONT YANKEE NUCLEAR POWER STATION										0   5   0   0   0   2   7   1										1   OF   0   2			

TITLE (4)

Inoperable Stack Radiation Monitors

EVENT DATE (8)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (9)																							
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES						DOCKET NUMBER(S)																	
0	6	17	8	4	8	4	-	0	1	0	-	0	0	0	7	1	6	8	4					0	5	0	0	0				

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § 1.124 (Check one or more of the following): (11)					
POWER LEVEL (10)	0 10 0	20.402(b)		20.408(c)		80.73(a)(2)(iv)	73.71(b)
		20.408(a)(1)(i)		80.36(a)(1)		80.73(a)(2)(v)	73.71(c)
		20.408(a)(1)(ii)		80.36(a)(2)		80.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)
		20.408(a)(1)(iii)	X	80.73(a)(2)(i)		80.73(a)(2)(viii)(A)	
		20.408(a)(1)(iv)		80.73(a)(2)(ii)		80.73(a)(2)(viii)(B)	
	20.408(a)(1)(v)		80.73(a)(2)(iii)		80.73(a)(2)(x)		

LICENSEE CONTACT FOR THIS LER (12)									
NAME  James P. Pelletier						TELEPHONE NUMBER			
						AREA CODE 8   0   2		2   5   7	

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13):											
CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPROS		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPROS	
A	I   L	I D   E   T	V   I   I   5	N							
X	I   L	I   R   I	V   I   I   5	Y							

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 6/16/84 while venting the main condenser with the reactor shut down, it was observed that the stack gas radiation monitors were not properly responding. A grab sample was obtained from the stack and analyzed to determine the release rate. The results of this analysis were compared with the indications of the radiation monitors. Troubleshooting revealed that Stack Gas II Radiation Monitor had the wrong detector installed and Stack Gas I Radiation Monitor had a faulty circuit card causing the instrument to drift approximately 1/2 decade. Grab samples were obtained periodically throughout the entire venting period to insure the release rate remained below the allowable limits.

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PDR ADOCK 05000271  
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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

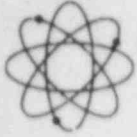
EXPIRES 8/31/85

FACILITY NAME (1)  Vermont Yankee Nuclear Station	DOCKET NUMBER (2)  0 5 0 0 0 2 7 1 8 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	- 0 1 0	- 0 0	0 2	OF 0 2	

TEXT (If more space is required, use additional NRC Form 305A's) (17)

On 6/16/84 after reactor shutdown while venting the main condenser using the mechanical vacuum pump it was observed that Stack Gas II radiation monitor was not responding the same as Stack Gas I radiation monitor. A grab sample was obtained from the plant stack and analyzed. After analysis the results of the sample were compared to the indication on the recorders from Stack Gas I and II. This comparison indicated a higher release rate than that indicated on the recorders. The release rate indicated by the grab sample was less than that allowed by Technical Specifications. Grab samples continued to be taken periodically during the time venting was taking place to insure the release rate remained below the allowable limits. On 6/17/84 Stack Gas I and II Radiation Monitors were recalibrated. During the calibration of Stack Gas II Radiation Monitor it was found that the detector installed was a gamma sensitive detector vice the beta sensitive detector required. From review of I and C Department records it appears that the wrong detector had been installed in the instrument during maintenance on 3/15/84. The correct detector was installed and all spare detectors were checked to insure that they were the correct type. During calibration of Stack Gas I Radiation Monitor the instrument was observed to be indicating low by a factor of 3.6. Further troubleshooting on 6/23/84 revealed a problem on a circuit card in the instrument causing the instrument to drift approximately  $\frac{1}{2}$  decade. The circuit card was replaced and the instrument recalibrated. Review of plant records has shown that at no time were release limits exceeded.

There have been no previous occurrences reported to the commission. There were no adverse affects to public health or safety.



# VERMONT YANKEE NUCLEAR POWER CORPORATION

P. O. BOX 157  
GOVERNOR HUNT ROAD  
VERNON, VERMONT 05354

July 16, 1984

VYV84-369

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 84-10

Dear Sirs:

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

Very truly yours,

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

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