

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) VERMONT YANKEE NUCLEAR POWER STATION	DOCKET NUMBER (2) 0   5   0   0   0   2   7   1	PAGE (3) 1 OF 0   2
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TITLE (4)  
Failure of Environmental Air Sampling Pump

EVENT DATE (6)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)															
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)													
0	1	0	2	8	5	8	5	0	0	0	1	0	0	0	2	1	1	8	5	0	5	0	0	0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)										
POWER LEVEL (10) 1   0   0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(a)	<input type="checkbox"/> 60.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)							
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 60.36(a)(1)	<input type="checkbox"/> 60.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)							
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 60.36(a)(2)	<input type="checkbox"/> 60.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)							
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 60.73(a)(2)(i)	<input type="checkbox"/> 60.73(a)(2)(viii)(A)								
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 60.73(a)(2)(ii)	<input type="checkbox"/> 60.73(a)(2)(viii)(B)								
<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 60.73(a)(2)(iii)	<input type="checkbox"/> 60.73(a)(2)(x)									

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME James P. Pelletier, Plant Manager		AREA CODE 8   0   2	NUMBER 2   5   7   -   7   7   1   1

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM
X	I	S	P	G	0	4	6	N			

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)		
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO			MONTH	DAY	YEAR

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

During the week of 12/31/84 and 1/7/85 the plant was at approximately 100 percent power during normal operation. On 1/2/85, while collecting the weekly environmental air sample at Station AT2.1, it was discovered that a continuous air sample was not taken as required by Technical Specification 3.9.D.2. The environmental air sampling pump was replaced with a repaired spare pump. On 1/8/85 the environmental air sampling pump was discovered not operating. The pump was replaced with a repaired spare pump. The failed pump discovered on 1/2/85 was in operation in excess of four years. No operational history is available on the second pump. Both pump failures were similar and evaluated as age related.

As reported in similar occurrences LER 81-05, 81-09, 80-21, the plant stack release levels were normal, and past experience has shown that these levels are undetectable by the air sampling station. Therefore, the environmental air sampling pump failure was of no consequence, or potential consequence, to the health and safety of the public.

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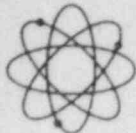
LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  VERMONT YANKEE NUCLEAR POWER STATION	DOCKET NUMBER (2)  0 5 0 0 0 2 7 1 8 5	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 5	— 0 0 1	— 0 0 2	OF	0 2

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

During the week of 12/31/84 and 1/7/85 the plant was at 100 percent power during normal operation. On 1/2/85 the weekly environmental air sample was collected at Station AT2.1. The environmental air sampling pump was discovered not operating, and the air sample was 75 percent of normal volume. Technical Specification 3.9.D.2 requires a continuous air sample to be collected at station AT2.1. The environmental air sampling pump was replaced with a repaired spare pump. On 1/8/85 the weekly environmental air sample was collected at Station AT2.1 and again the air sampling pump was discovered not operating. The pump was replaced with a repaired spare pump, and the environmental air sampling system at Station AT2.1 made operable. The failed pump discovered on 1/2/85 was in operation in excess of four years. No operational history was available on the second pump. Both pumps that failed are Gast Manufactures, Inc. Diaphragm Air pumps, Model BOA-V112-AA. The Gast diaphragm pump utilizes an eccentric impeller design with carbon steel vanes. As the pumps approach their end-of-life, the carbon steel vanes become worn. Both failures were evaluated as age related, because worn pieces of the carbon steel vanes became lodged in the pump housing causing the pump shaft to seize and the motor to burn out. New pumps have been ordered to replace the repaired pumps.

As reported in similar occurrences LER 81-05, 81-09, 80-21, the plant stack release levels were normal, and past experience has shown that these levels are undetectable by the air sampling station. Therefore, the environmental air sampling pump failure was of no consequence, or potential consequence to the health and safety of the public.



VERMONT YANKEE NUCLEAR POWER CORPORATION

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

February 11, 1985

VYV 85-084

U.S. Nuclear Regulatory Commission  
Document No. 50-271  
Washington, D.C. 20555

REFERENCE: Operating License DPR-28  
Docket No. 50-271  
Reportable Occurrence No. LER 85-01

Dear Sirs:

As defined by 10CFR50.73, we are reporting the attached Reportable Occurrence as LER 85-01.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

James P. Pelletier  
Plant Manager

RDP/drc

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

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