

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)
Control Room Habitability System Activation

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 (9)
1	0	2	8	5	0	1	2	0			0 5 0 0 0
											0 5 0 0 0

OPERATING MODE (8) N		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
POWER LEVEL (10) 0 0 0		20.402(b)		20.406(e)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)		73.71(b)			
		20.406(a)(1)(i)		50.36(e)(1)		50.73(a)(2)(v)		73.71(e)			
		20.406(a)(1)(ii)		50.36(e)(2)		50.73(a)(2)(vi)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)			
		20.406(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(vii)(A)					
		20.406(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(vii)(B)					
	20.406(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(ix)						

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME James P. Pelletier, Plant Manager		AREA CODE 8 0 2	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 NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
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 10/28/85 while performing maintenance on the service air conditioners, freon was released in the vicinity of the Control Room air intake duct. The freon activated the Control Room Toxic Gas Monitors which subsequently activated the Control Room Habitability System and placed the Control Room in recirculation-ventilation mode as designed.

The Toxic Gas Monitors/Control Room Habitability Systems were reset after plant personnel determined the source and substance that activated the system.

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PDR ADOCK 05000271
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
VERMONT YANKEE NUCLEAR POWER STATION	05000271	85	012	00	02	OF 02

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

On 10/28/85 at 1125 hours with the plant in cold shutdown and the reactor vessel defueled, actuation of the Control Room Habitability System was caused by a High Point Limit being reached on the Toxic Gas Monitors of the Control Room Habitability System. The actuation was determined to be the result of freon (R-22) gas being drawn into the Control Room air intake duct during a purging of the Service Air Conditioning units located on the roof (el. 280'). Due to the chemical composition of the freon (CHClF_2) and the analyzing action of the monitors, the Chlorine, Hydrocarbon, and Methane gas monitors of the Toxic Gas Monitoring system activated. This, in turn, activated the Control Room Habitability System which placed the Control Room in the recirculation mode and isolated the Control Room from outside air intake as designed.

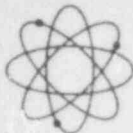
The Toxic Gas Monitors and the Control Room Habitability System were reset after plant personnel identified the source and substance that activated the Control Room Habitability System.

The plant personnel responsible for maintenance of the Service Air Conditioner Units were informed of the possible activation of the Control Room Habitability System during purging of freon from the Service Air Conditioning units and corrective measures will be taken to eliminate this event from occurring again.

This event has no safety significance because:

1. There were no significant/harmful amounts of freon released to the Control Room.
2. The Control Room Habitability System functioned as required.

There have been no similar previous events.



VERMONT YANKEE NUCLEAR POWER CORPORATION

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

November 26, 1985

VYV85-497

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 85-12

Dear Sirs:

As defined by 10CFR50.73, we are reporting the attached Reportable Occurrence as LER 85-12.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

James P. Pelletier
Plant Manager

HMM/drc

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

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