

## 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)  
Incorrect Noble Gas Effluent Dose Rate

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 9	2 8	8 5	8 5	0 0 8	0 0 1	0 2	8 8	8 5			0 5 0 0 0
											0 5 0 0 0

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)									
POWER LEVEL (10) 0 1 0 1 0		20.402(b)		20.406(a)		50.73(a)(2)(iv)		73.71(b)			
		20.406(a)(1)(i)		50.36(a)(1)	X	50.73(a)(2)(v)		73.71(e)			
		20.406(a)(1)(ii)		50.36(a)(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)(viii)(A)					
		20.406(a)(1)(iv)	X	50.73(a)(2)(ii)		50.73(a)(2)(viii)(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	AREA CODE		
James P. Pelletier, Plant Manager	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)	X NO				

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

During an audit on 9/27/85, Yankee Atomic personnel discovered an error in the offsite dose rate calculation procedure, which did not correspond to Technical Specifications section 3.8.E requirements. The calculation used an equation which gave an answer with the units in dose (mRem) instead of dose rate (mRem/yr). The incorrect equation had been in the procedure since April 1, 1985.

The stack radiation monitors have been monitoring gaseous effluent and no limits were exceeded during the period when the procedure was used.

There have been no similar incidents reported to the commission since there were no notable releases during this time period. There was no consequence to the health and safety of the public.

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PDR ADOCK 05000271  
S PDR

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

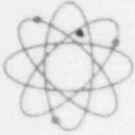
EXPIRES 8/31/83

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

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

During an audit on 9/27/85 Yankee Atomic personnel discovered an error in the offsite dose rate calculation procedure. Technical Specification section 3.8.E requires that gaseous effluents dose rates be calculated for noble gases and particulates with half lives greater than 8 (eight) days. The calculation used an incorrect equation which gave an answer in dose (mRem) instead of the required Dose Rate (mRem/yr). The procedure was corrected and the dose rate was calculated for the worst case during the period from April 1, 1985 to September 9, 1985. The result showed that the releases were a factor of 1000 below Technical Specification limits. During the period that the dose rates were not calculated the Stack Radiation Monitors were functioning properly and would have alarmed if the Technical Specification's limits were exceeded. The plant operated from April 1, 1985 to September 20, 1985 with no notable gaseous releases. On September 20, 1985 the plant shutdown for refueling and recirc pipe replacement.

There have been no similar incidents reported to the Commission. Since there were no releases during this time period there was 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

October 28, 1985

VYV85-468

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

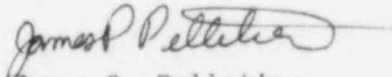
REFERENCE: Operating License DPR-28  
Docket No. 50-271  
Reportable Occurrence No. LER 85-08

Dear Sirs:

As defined by 10CFR50.73, we are reporting the attached Reportable Occurrence as LER 85-08.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

  
James P. Pelletier  
Plant Manager

RDP/jbb

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

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