NRC Form 396 (9-83) LICENSEE EVENT REPORT (LER)									U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO 3150-0104 EXPIRES 8/31/85								
FACILITY NAME (1)							DOCKET NUMBER	(2)		PAGE (S)							
VERMONT YANKEE NUCLEAR POWER STAT				ION	ION				0 5 0 0	0 12 1	711	1 OF	0 12				
**REA	CTOR	SCRAM	1 ON	LOSS OF	RPS "B" /	AND N	EUTR	ON MON	ITORI	NG SYSTEM	M A TRIP						
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MONTH DAY YEAR		YEAR	YEAR SEQUENTIAL REVE			DAY	YEAR		FACILITY NAM	MES	DOCKET NUMBER(S)						
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					- 1	ICENSES	CONTAC	T FOR THIS	LER (12)			TELEPHON	E NUMB	ER			
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				COMPLET	TE ONE LINE FOR	EACH C	OMPONE	T FAILURE	DESCRIBE	D IN THIS REPO	AT (13)						
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SUPPLEMENTAL REPORT EXPECTED (14)							EXPECTED MONT			DAY	YEAR						
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On 6-10-86 at 2041 hours while the plant was shutdown and performing Recirculation Pump testing the Reactor Protective System (RPS) alternate power supply tripped causing a half SCRAM on the "B" channel. Concurrent with this an auto SCRAM signal was received on the "A" channel as a result of a neutron monitoring system A-1 trip. The A-1 trip is attributed to an IRM going "hi-hi" due to noise in the circuit. This additional half SCRAM resulted in a full SCRAM signal being received.

There were no adverse safety consequences as a result of this event and all systems were returned to their normal conditions. Alternate RPS supply voltage stability has been determined to be the root cause of this event.

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ABSTRACT (Limit to 1400 speces: a., approximetely fifteen single-space typewritten lines) (14)

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NRC Form 386A (9-83)	EVENT REPORT (LER) TEXT CONTIN	REPORT (LER) TEXT CONTINUATION					APPROVED OMB NO. 3150-0104 EXPIRES 8/31 85							
FACILITY NAME (1)	DOCKET NUMBER (2)		L	ER NUMBER (1) -		PAGE (3)							
		YEAR	I	SEQUENTIAL NUMBER		REVISION								
VERMONT NUCLEAR POWER STA	TION 0 5 0 0 0 2 7 1	8 6		0 1 1	-	0 0	0	2	OF	0	12			

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

Description of Event

On 6-10-86 at 2041 hours, plant maintenance personnel were performing maintenance on the normal "B" Reactor Protection System (RPS) supply when plant operators began recirculation pump testing. The "B" RPS alternate supply then tripped because of a voltage dip on the alternate supply due to the pump motor starting. The tripping of the alternate supply gave a half SCRAM while at the same time an additional half SCRAM was received from a neutron monitoring system A-1 trip. This trip is attributed to an Intermediate Range Monitor (IRM) going hi-hi" due to noise in the circuit.

Cause of Event

The root cause of this event is attributed to the "B" RPS alternate supply tripping when the recirculation pump motor was started. The starting of this motor dropped the line voltage below the under voltage protection trip point on the RPS alternate supply. There have been instances where the unregulated characteristics of the alternate power feed in conjunction with the undervoltage, overvoltage, and underfrequency protection provided by the RPS power supply protection panels have caused loss of the alternate power supply. This has happened during routine system voltage reductions or during transient conditions resulting from starting large loads or transferring loads between the startup and auxiliary transformers. The cause of the A-1 neutron monitoring system trip is attributed to noise in the IRM circuitry causing the IRM to go hi-hi".

Analyses of Event

No adverse safety consequences resulted from this event since the Reactor was in a shutdown condition at the time of this event. All safety systems functioned as designed and would have performed their intended function had the plant been operating. There were no adverse affects to public health or safety as a result of this event.

Corrective Actions

The alternate supply and the SCRAM signal were reset and the RPS loads were shifted back to the normal RPS supply.

Engineering is presently evaluating the stability of the voltage regulation of the alternate feed to the RPS power supply and will be implementing a design modification to reduce the possibility of this type of an event re-occurring.



ERMONT YANKEE NUCLEAR POWER CORPORATION

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

July 9, 1986

VYV 86-211

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 86-11

Dear Sirs:

As defined by 10CFR50.73, we are reporting the attached Reportable Occurrence as LER 86-11.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

James P. Pelletier

Plant Manager

HMM/gmv

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