

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Haddam Neck										DOCKET NUMBER (2) 0 5 0 0 0 2 1 3 1					PAGE (3) OF 0 2	
TITLE (4) Spurious Load Runback																
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 6	2 6	8 5	8 5	0 1 5	0 0	0 7	2 5	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)														
I		20.402(b)				20.405(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)		
POWER LEVEL (10)		20.405(a)(1)(i)				50.38(c)(1)				50.73(a)(2)(v)				73.71(c)		
0 9 0		20.405(a)(1)(ii)				50.38(c)(2)				50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
		20.405(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)						
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)						
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME David W. Mazzarella										TELEPHONE NUMBER						
										AREA CODE 2 0 3 2 6 7 - 2 5 5 6						
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs						
X	IG	RH/E	W 1 2 0	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)

With the plant in Mode I at 90% power, Excure Nuclear Instrumentation (NIS)(IG) Power Range Channel 34 spiked high actuating one half of an overpower reactor trip at 109%. A downward spike then caused actuation of a dropped rod load runback (engineered safety feature). The channel then returned to normal.

The cause of the failure was the gain potentiometer for this NIS channel. The gain pot was being adjusted by an operator when the signal failed. The load runback was terminated manually. The NIS channel drawer was replaced with a spare. The gain pot will be replaced.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) Haddam Neck	DOCKET NUMBER (2) 0 5 0 0 0 2 1 3	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 5	— 0 1 5	— 0 0	0 2	OF	0 2

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

Background

On 6/26/85 at 0730 hours, plant power was 90% and being decreased to 65% for maintenance. An operator was adjusting one of four Excore Nuclear Instrumentation (NIS)(IG) power range instruments (channel 34) when the channel spiked high, then low, then returned to normal. The high spike caused one half of a reactor overpower trip at 109% and the low spike caused actuation of a dropped rod load runback (decrease of 5% power in less than two seconds). The spurious load runback was terminated manually by resetting channel 34. A jumper was installed to defeat the load runback circuit on this channel to prevent further spurious signals. The instrument drawer for channel 34 was replaced with a spare and the jumper was removed.

The NIS power range instrument indicators are manually adjusted periodically to keep indicated power equal to calculated thermal power which is provided by the plant computer.

Root Cause

The failure was caused by the gain adjustment potentiometer which is used to adjust the indicated power. The faulty pot was tested and found to have a spot in the adjustment range where it didn't hold its value.

The NIS power range equipment is supplied by Westinghouse (W120) model no. 991D084G02.

Reportability

This event is reportable under 10CFR50.73(a)(2)(iv) since it involved the actuation of an Engineered Safeguards Feature.

Corrective Action

The gain pot on this drawer will be replaced immediately. This problem has not been encountered with similar components in the system, however, the gain potentiometers in the remaining power range drawers will be replaced during the next refueling shutdown. No other corrective action was taken.



CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

RR #1, BOX 127E, EAST HAMPTON, CONN. 06424

July 25, 1985

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Reference: Facility Operating License No. DPR-61
Docket No. 50-213
Reportable Occurrence LER 50-213/85-015-00

Gentlemen:

This letter forwards the Licensee Event Report 85-015-00, required to be submitted within thirty days, pursuant to the requirements of Connecticut Yankee Technical Specifications.

Very truly yours,

Richard H. Graves
Station Superintendent

RHG:DWM/dfv
Attachment: LER 85-015-00

cc: Dr. T. E. Murley, Region I

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