

YANKEE ATOMIC ELECTRIC COMPANY



Rowe, Massachusetts 01367

January 27, 1986

U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Attention: Dr. Thomas E. Murley, Regional Administrator

Subject: Licensee Event Report 50-29/85-010
Inadvertent Reactor Scram During Maintenance Activity

Dear Sir:

In accordance with 10 CFR 50.73(a)(2)(iv), the attached Licensee Event Report is hereby submitted.

Very truly yours,

Normand N. St. Laurent
Plant Superintendent

ELM/nm
Enclosure

cc: [3] NSARC Chairman (YAEC)
[1] Institute of Nuclear Power Operations (INPO)

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) YANKEE NUCLEAR POWER STATION, ROWE, MASSACHUSETTS														DOCKET NUMBER (2) 0 5 0 0 0 0 2 9						PAGE (3) 1 OF 0 2					
TITLE (4) INADVERTENT REACTOR SCRAM DURING MAINTENANCE ACTIVITY																									
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 5 0 0 0								
1	2	8	8	5	8	5	-	0	1	0	-	0	0	0	1	2	7	8	6	0 5 0 0 0					
OPERATING MODE (9)			2			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)																			
POWER LEVEL (10) 0 0 0			20.402(b)				20.405(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)										
			20.405(a)(1)(i)				50.36(e)(1)				<input type="checkbox"/> 50.73(a)(2)(v)				73.71(c)										
			20.405(a)(1)(ii)				50.36(e)(2)				<input type="checkbox"/> 50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 365A)										
			20.405(a)(1)(iii)				50.73(a)(2)(i)				<input type="checkbox"/> 50.73(a)(2)(viii)(A)														
			20.405(a)(1)(iv)				50.73(a)(2)(ii)				<input type="checkbox"/> 50.73(a)(2)(viii)(B)														
			20.405(a)(1)(v)				50.73(a)(2)(iii)				<input type="checkbox"/> 50.73(a)(2)(x)														
LICENSEE CONTACT FOR THIS LER (12)																									
NAME Edwin L. May, Plant Engineer														TELEPHONE NUMBER AREA CODE 4 1 3 4 2 4 - 5 2 6 1											
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																									
CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPROS		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPROS															
SUPPLEMENTAL REPORT EXPECTED (14)														EXPECTED SUBMISSION DATE (15)											
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)

On December 28, 1985, at 1329 hours, with the plant in Mode 2 and at 10⁻⁹ amps reactor power, an inadvertent reactor scram occurred as a result of a functional test of an intermediate range nuclear instrumentation channel, using an approved procedure. The reactor protection system high startup rate (SUR) scram logic, which is cut in below 15 MWe, was completed by a false signal initiated during the performance of the function test by Instrumentation and Control Technicians. All plant equipment responded correctly. A four-hour notification, pursuant to 10 CFR 50.72.b.2.II, was made to the NRC at 1415 hours.

The root cause of this occurrence was attributed to personnel error. The appropriate plant personnel will be counseled to consider the effect of their actions at all times. The plant procedure OP-4601 will be revised to clarify the high SUR scram precautions and a new prerequisite added.

There was no adverse effect to the public health or safety as a result of this occurrence.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) YANKEE NUCLEAR POWER STATION ROWE, MASSACHUSETTS	DOCKET NUMBER (2) 0 5 0 0 0 0 2 9 8 5 — 0 1 0 — 0 0 0 2 OF 0 2	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

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

On December 28, 1985, at 1329 hours, with the plant in Mode 2 and at 10^{-9} amps reactor power, an inadvertent reactor scram occurred during the performance of procedure OP-4601, "Nuclear Instrumentation Channels Functional Test" for Channel 3 Intermediate Range Channel. A four-hour notification, pursuant to 10 CFR 50.72.b.2.II, was made to the NRC at 1415 hours.

In response to a Maintenance Request for Channel 3 the Instrument and Control (I&C) Department Foreman dispatched two I&C Technicians to the Control Room to perform procedure OP-4601 on Channel 3. Using OP-4601, an approved plant procedure, and with the knowledge of the operating shift personnel the I&C Technicians started the procedure which resulted in the initiation of a reactor scram from the intermediate range neutron flux high startup rate (SUR) scram signal.

The intermediate range neutron flux high SUR 1 of 2 channel scram logic is automatically bypassed at greater than or equal to 15 MWe and is automatically cut in prior to going below 15 MWe. The I&C Foreman failed to adequately consider the existing plant conditions and all the ramifications of performing OP-4601 while in Mode 2. The precaution and note in the procedure which refers to the high SUR trip are difficult to comprehend and were thus missed by the I&C Technicians.

The I&C Foreman and Technicians and Operators will be counseled to consider the effects of their actions at all times. The plant procedure OP-4601 will be revised to clarify the high SUR scram precautions and a new prerequisite added.

This is the first reportable occurrence of this nature.

There was no adverse effect to the public health or safety as a result of this occurrence.