

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Turkey Point Unit 3	0 5 0 0 0 2 5 0	1 OF 0 2

TITLE (4)

Engineered Safety Feature Actuation - Turbine 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)															
									N/A						0	5	0	0	0										
0	4	0	3	8	4	8	4	—	0	1	3	—	0	0	0	5	0	3	8	4	N/A	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)					
N		20.402(b)		20.406(c)	<input checked="" type="checkbox"/>	60.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)	11010	20.406(a)(1)(i)		60.36(c)(1)		60.73(a)(2)(v)	73.71(c)
		20.406(a)(1)(ii)		60.36(c)(2)		60.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.406(a)(1)(iii)		60.73(a)(2)(i)		60.73(a)(2)(viii)(A)	
		20.406(a)(1)(iv)		60.73(a)(2)(ii)		60.73(a)(2)(viii)(B)	
		20.406(a)(1)(v)		60.73(a)(2)(iii)		60.73(a)(2)(x)	

LISCENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER	
	AREA CODE	
Paul A. Roach, Regulation and Compliance Engineer	3 0 5	2 4 5 - 2 9 1 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
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	I	I I I	I I I				I	I I I	I I I		

SUPPLEMENTAL REPORT EXPECTED (14)

YES (if yes, complete EXPECTED SUBMISSION DATE)		<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)			
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single space typewritten lines) (16)

On April 3, 1984, a turbine runback occurred. The root cause was determined to be due to a spurious rod drop signal potentially originating in the nuclear instrumentation system (NIS) channel N-44. Additional equipment monitoring initiated as a result of a previous runback (LER 250-84-009) provided recorded data indicating that components previously suspected did not cause this runback. All equipment functioned as designed. Immediate corrective actions included stabilizing the plant at approximately 75% power without problem, satisfactory operational testing of the NIS channel N-44 rod drop rate circuit and preparations to perform a special test under similar and/or simulated plant conditions to isolate the probable cause of the spurious signal. The health and safety of the public were not affected. Similar occurrences: LER 250-84-009.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Turkey Point Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 2 5 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	— 0 1 3	— 0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 365A's) (17)

On April 3, 1984, at 1:06 p.m., a turbine runback to approximately 460 megawatts occurred. The root cause was determined to be due to a spurious rod drop signal potentially originating in NIS channel N-44. Train A of NIS channels N-43 and N-44 (Power Range High Flux Trip, 2/4 logic) were placed in the tripped mode under test conditions during performance of Operating Procedure 1004.2, Reactor Protection System (RPS) - Periodic Test (step 8.12.4.7) for Train A with reactor trip bypass breaker A closed (this allows testing of Train A reactor trip signals without actually resulting in a reactor trip). The spurious signal ("NIS ROD DROP") occurred after tripping Train A of NIS channels N-43 and N-44 and before they were cleared, and resulted in the turbine runback.

A previous turbine runback (see LER 250-84-009) occurred during performance of the same periodic test. As part of the corrective actions to that event, additional equipment monitoring was initiated. Data recorded through the event indicates that the input to and output of the NIS channel N-44 rod drop bistable did not fluctuate, and thus, the bistable was not the cause of the spurious signal. Other areas being evaluated are considering instrument power supply fluctuations and other RPS interfaces and potential electrical interactions between the reactor protection racks and the power range nuclear instruments (e.g., evaluate potential affects of relay actuations that occur during testing).

Operating Procedure 1004.2 was satisfactorily completed with the plant stabilized at approximately 75% power and the NIS channel N-44 rod drop mode switch placed in the bypass position (OTSC 2059). The unit was returned to full power operation at 10:55 p.m.



May 3, 1984
PNS-LI-84-157

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

Gentlemen:

Re: Reportable Event 84-13
Turkey Point Unit 3
Date of Event: April 3, 1984
Engineered Safety Feature
Actuation-Turbine Runback

The attached Licensee Event Report is being submitted pursuant to the requirements of 10 CFR to provide notification of the subject event.

Very truly yours,

A handwritten signature in dark ink, appearing to read "J. Williams, Jr.", with a stylized flourish at the end.

J. W. Williams, Jr.
Group Vice President
Nuclear Energy

JWW/PLP/js

Attachment

cc: J. P. O'Reilly, Region II, USNRC
Harold F. Reis, Esquire
File 933.1

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