

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Turkey Point Unit 4										DOCKET NUMBER (2) 0 5 0 0 0 2 5 1 1 OF 0 2									
TITLE (4) Engineered Safety Feature Actuation - Reactor Trip																			
EVENT DATE (5)						LER NUMBER (6)				REPORT DATE (7)						OTHER FACILITIES INVOLVED (8)			
MONTH	DAY	YEAR	YEAR	SEQUENT/L NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES						DOCKET NUMBER(S)				
									N/A						0 5 0 0 0				
0 6	0 1	8 4	8 4	0 0	8	0 0	6 2	8 8	N/A						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)																	
N		20.402(b)				20.408(e)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)					
POWER LEVEL (10)		20.408(a)(1)(i)				50.38(a)(1)				50.73(a)(2)(v)				73.71(e)					
0 1 1 0		20.408(a)(1)(ii)				50.38(a)(2)				50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 365A)					
		20.408(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)									
		20.408(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)									
		20.408(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(x)									
LICENSEE CONTACT FOR THIS LER (12)																			
NAME Paul A. Roach, Regulation and Compliance Engineer										TELEPHONE NUMBER									
										AREA CODE 3 0 1 5 2 1 4 5 1 - 2 9 1 1 0									
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)									
<input type="checkbox"/> 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 June 1, 1984, a reactor trip occurred. The root cause was determined to stem from a personnel error that resulted in reactor power reaching 10% with the turbine in a tripped condition and occurred during attempts to open the main steam isolation valves (MSIVs). The MSIVs are opened only after equalizing the steam generator pressures with the steam header pressure. This is accomplished by opening the associated bypass valves around the MSIVs and increasing atmospheric steam dump in the respective headers to reduce the pressure upstream of the MSIVs. The steam usage associated with equalizing the steam pressure across the MSIVs reduces the average reactor coolant system temperature (T_{avg}). During attempts to open the MSIVs, the licensed operator increased reactor power in anticipation of a sagging T_{avg} . However, reactor power reached 10% during the evolution and since the turbine was in a tripped condition, a reactor trip resulted. All equipment functioned as designed on initiation of the engineered safety feature actuation signal (ESFAS) generated in the reactor protection system. Immediate corrective actions included supervisor discussions with the licensed operators on the initiating conditions and plant parameters and understanding the significance of their actions. The health and safety of the public were not affected. Similar occurrences: None.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED GMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1) Turkey Point Unit 4	DOCKET NUMBER (2) 0500025184	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

TEXT (If more space is required, use additional NRC Form 385A's) (17)

On June 1, 1984, at 11:12 p.m., a reactor trip occurred while performing the unit evolution - hot shutdown to power operation. The root cause was determined to stem from a personnel error that resulted in reactor power reaching 10% with the turbine in a tripped condition. A reactor trip resulted on reactor protection system (RPS) logic - "Turbine Trip" coincident with reactor power above 10%.

Opening the main steam isolation valves (MSIVs) is performed under step 8.13.6 of Operating Procedure 0202.2, Unit Start-up - Hot Shutdown to Power Operation. Prior to performing this step, the bypass valves for the MSIVs are opened to equalize the steam header pressure with the steam generator (S/G) pressures, equalizing the steam pressures across the MSIVs which is required to open these valves. The steam usage associated with equalizing the pressure across the MSIVs reduces the average reactor coolant temperature (T_{avg}). During attempts to open the MSIVs, the licensed operator increased reactor power in anticipation of a sagging T_{avg} by movement of Bank D control rods. However, reactor power exceeded the nuclear instrumentation system (NIS) P-10 ("Permissive") setpoint of 10% power on 2/4 NIS power range channels (N-41 and N-44) and resulted in the reactor trip.

All equipment functioned as designed on initiation of the engineered safety feature actuation signal (ESFAS) generated in the RPS. Following completion of the post-trip review, having identified no other problems, the unit evolution hot shutdown to power operation re-commenced without problem. The unit returned to service at 2:22 a.m., on June 2, 1984.

June 28, 1984
PNS-LI-84-221

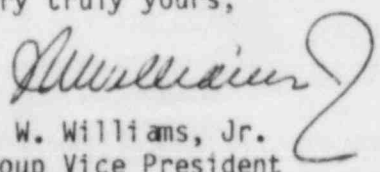
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

Re: Reportable Event 251-84-008
Turkey Point Unit 4
Date of Event: June 1, 1984
Engineered Safety Feature Actuation - Reactor Trip

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,


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

JWW/SAV/js

Attachment

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

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