

NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Turkey Point Unit 3						DOCKET NUMBER (2) 0 5 0 0 0 2 5 0						PAGE (3) 1 OF 2	
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TITLE (4) Fire Suppression Water Source													
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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)		
									Turkey Point Unit 4			0 5 0 0 0 2 5 1		
			8 5	0 0 6	0 1	0 8	0 1	8 5	N/A			0 5 0 0 0		

OPERATING MODE (9) N		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)											
POWER LEVEL (10) 1 0 0		20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)					
		20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)					
		20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)	X	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)		Updated Special Report					
		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 Jesus Arias, Jr., Regulation and Compliance Supervisor (Revision 0) R. L. Teuteberg, Regulation and Compliance Engineer (Revision 1)										TELEPHONE NUMBER AREA CODE 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 NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC				

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)

Updated Special Report

Section IIIA of 10CFR 50 Appendix R requires that:

"Two separate water supplies shall be provided to furnish necessary water volume and pressure to the fire main loop." and

"When storage tanks are used for combined service-water/fire-water uses the minimum volume for fire uses shall be ensured by means of dedicated tanks or by some physical means such as a vertical standpipe for other water service. Administrative controls, including locks for tank outlet valves, are unacceptable as the only means to ensure minimum water volume."

Turkey Point Units 3 and 4 have implemented these requirements for fire suppression water supply.

A redundant Raw Water Tank II is now installed. Both the original Raw Water Tank (Tank I) and the redundant Raw Water Tank II hold 300,000 gallons of water dedicated to fire suppression. A water storage volume above the 300,000 gallons of dedicated water is available to the plant service water system. The service water outlet nozzle from each tank is high on the tank wall in a manner equivalent to standpipes to prevent service water drawdown into the dedicated inventory of fire suppression water. Water levels above the service water outlet nozzle are maintained automatically. There are high and low level alarms and continuous recording of service water level. Additionally, the level in each raw water tank is checked on a daily basis as required by procedures.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 5	0 0 6	0 1 0	2	OF	0 2

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

Updated Special Report

Outlets for the fire suppression water are located near the bottom of each tank. The outlet from Raw Water Tank I is aligned to an electrically driven fire pump and the outlet from Raw Water Tank II is aligned to a diesel driven fire pump. A crossover line between outlets of the two tanks contains two normally closed valves. The crossover line makes the Raw Water Tanks redundant to supply either fire pump. One of two jockey pumps is continuously running to maintain the downstream system headers, sections, and region supplies water solid and at pressure to prevent water hammer.

The high tower had previously provided 30,000 gallons of fire suppression water inventory. This source of water will now be removed from the fire suppression system by closing and administratively locking the high tower outlet valve (794). Previously the high tower held both fire protection water and service water in common.

Technical Specification 3.14.2 requires that 30,000 gallons in the elevated storage tank will be part of the "minimum contained volume" available for fire suppression water. The currently implemented change provides ten times this value in one of two redundant 300,000 gallon tanks of dedicated water.

The currently implemented change removes the shared high tower water source from the fire suppression system in accordance with the requirements of 10CFR50 Appendix R.

This report is submitted in compliance with TS 3.14.2.b.1 and it is intended to clarify compensatory measures to be taken in order to comply with TS 3.14.2.a.2 pending receipt submittal and issuance for the new Fire Protection Systems Technical Specifications in accordance with 10CFR50 Appendix R.

The adequacy of the new Raw Water Tank II in meeting Appendix R III.A requirements was approved by NRC on 11/9/81 as described in letter issued for these modifications.

The compensatory measures and submittal of this Special Report have been discussed with Region II and NRR staff members.



AUG 1 1985

L-85-297

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

Gentlemen:

Re: Special Report 85-06 (Revision I)
Turkey Point Unit 3
Fire Suppression Water Source

The attached Special Report is submitted pursuant to the requirements of 10 CFR to update our previous report dated February 15, 1985.

Very truly yours,

A handwritten signature in dark ink, appearing to read "J. W. Williams, Jr.", is written over a horizontal line.

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

JWW/PLP:mls

Attachment

cc: Dr. J. Nelson grace, Region II, USNRC
Harold F. Reis, Esquire
PNS-LI-85-283

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