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RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 90-007-00:on 900408,automatic start of 3B CCW pump due to low CCW pump discharge header pressure.

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MAY 0 1 1990

L-90-158
10 CFR 50.73

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

Gentlemen:

Re: Turkey Point Unit 3
Docket No. 50-250
Reportable Event: 90-07
Date of Event: April 8, 1990
Automatic Start of the 3B Component Cooling Water (CCW) Pump Due to Low CCW Pump Discharge Header Pressure

The attached Licensee Event Report is being submitted pursuant to the requirements of 10 CFR 50.73 to provide notification of the subject event.

Very truly yours,

K. N. Harris
Vice President
Turkey Point Plant Nuclear

KNH/DRP/DWH/rat

attachment

cc: Stewart D. Ebneter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

IE22
1/1

NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/88

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 3

TITLE (4) Automatic Start Of The 3B Component Cooling Water (CCW) Pump Due To Low CCW Pump Discharge Header Pressure

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 4	0 8	9 0	9 0	0 0 7	0 0	0 5	0 1 9 0		N/A	0 5 0 0 0
										0 5 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

OPERATING MODE (9)	5	20.402(b)	20.405(c)	X	50.73(a)(2)(iv)		73.71(b)
POWER LEVEL (10)	0 0 0	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)		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)(x)		

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
David R. Powell, Superintendent of Licensing	AREA CODE 3 0 5 2 4 6 - 6 5 5 9

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	

SUPPLEMENTAL REPORT EXPECTED (14)

[ ] YES (If yes, complete EXPECTED SUBMISSION DATE) [X] NO

EXPECTED SUBMISSION DATE (15): MONTH | DAY | YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

At 0935, on April 8, 1990, with Unit 3 in Mode 5 (Cold Shutdown), the 3B Component Cooling Water (CCW) pump automatically started upon sensing a CCW pump discharge header pressure below the 60 psig setpoint. At the time of this event, the 3A CCW pump was supplying cooling water to the Train A and B CCW System loads. Upon closure of manual valve 3-787A (CCW pump suction header sectionalizing valve) in accordance with Operating Surveillance Procedure 3-OSP-030.7, "CCW Manual Valve Operability Test," the 16 inch Train B header return path to the 3A CCW pump suction was diverted through the CCW System surge tank and a 4 inch line to the 3A CCW pump suction. The 3A CCW pump attempted to supply a CCW System flow demand of approximately 9740 gpm with a suction flow of approximately 5000 gpm. The low CCW pump discharge header pressure condition was the result of inadequate procedural controls in procedure 3-OSP-030.7 for the evolution being performed. A potential CCW pump discharge header low pressure condition, upon closing valve 3-787A with the 3A CCW pump supplying the Train A and B CCW System loads, was not considered a probable occurrence when procedure 3-OSP-030.7 was developed. The Unit 3 CCW pumps remained operable and the 3A CCW pump continued to operate during this event. Changes have been initiated to 3/4-OSP-030.7.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Turkey Point Unit 3	0 5 0 0 0 2 5 0	9 0	— 0 0 7	— 0 0	0 2 OF 0 3

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

DESCRIPTION OF THE EVENT

At 0935, on April 8, 1990, with Unit 3 in Mode 5 (Cold Shutdown), the 3B Component Cooling Water (CCW) pump (EIIS:CC, Component:P) automatically started upon sensing a CCW pump discharge header pressure below the 60 psig setpoint. The 3A CCW pump continued to operate during this event.

At the time of this event, the 3A CCW pump was supplying approximately 9740 gpm cooling water flow through a 16 inch pump discharge line to the Train A and B CCW System loads. Upon closure of manual valve 3-787A (CCW pump suction header sectionalizing valve) in accordance with Operating Surveillance Procedure 3-OSP-030.7, "CCW Manual Valve Operability Test," the 16 inch Train B header return path to the 3A CCW pump suction was diverted to the CCW System surge tank. The surge tank level increased above the 55 percent high level setpoint. The 4 inch line from the surge tank to the 3A CCW pump suction did not allow enough flow to pass to make up for the reduction in suction flow caused by closing valve 3-787A. The 3A CCW pump attempted to meet a CCW System load demand of approximately 9740 gpm with a suction flow of approximately 5000 gpm. The resulting dynamics of the CCW system caused the CCW pump discharge header pressure to drop below the 60 psig setpoint.

At 1028, the NRC Operations Center was notified of the above event in accordance with 10CFR50.72(b)(2)(ii). Technical Specification 3.4 classifies the CCW pumps as Engineered Safety Features (ESFs), therefore; this event is being reported as an automatic actuation of an ESF in accordance with 10CFR50.73(a)(2)(iv).

CAUSE OF THE EVENT

The low CCW pump discharge header pressure condition was the result of inadequate procedural controls in Operating Surveillance Procedure 3-OSP-030.7 for the evolution being performed. A potential CCW pump discharge header low flow or low pressure condition, upon closing valve 3-787A with the 3A CCW pump supplying the Train A and B CCW System loads, was not considered a probable occurrence when 3-OSP-030.7 was developed.

ANALYSIS OF THE EVENT

The Unit 3 CCW pumps remained operable and the 3A CCW pump continued to operate during this event. The reduced CCW pump discharge header pressure condition was not of sufficient duration to adversely affect performance of the 3B RHR pump or other CCW System loads. Upon automatic starting of the 3B CCW pump, the CCW pump discharge header pressure was restored to above the low pressure setpoint of 60 psig.

CORRECTIVE ACTIONS

1. On-The-Spot-Changes (OTSCs) were generated against Operating Surveillance Procedures 3/4-OSP-030.7. These changes require verifying that two CCW pumps are in operation prior to manipulating manual valves which could result in a CCW pump discharge header low pressure condition.

2. CCW System configurations specified in Operating Procedures will be reviewed to determine their susceptability for automatically starting a CCW pump due to a low pump discharge header pressure condition. This review will be completed by May 25, 1990. Procedure revisions will be initiated, if required.

ADDITIONAL INFORMATION

Similar Occurrences: LER 50-251/87-026, LER 50-251/87-012-01, LER 50-251/87-011, and LER 50-251/87-002 reported previous automatic starts of a CCW pump. However, none of these occurrences shared the same root cause as identified in this LER.