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(9-83)														U.S.		PPROVED OMB	NO 3150-0104
LICENSEE EVENT REPORT (LER)										EXPIRES 8/31/88							
FACILIT	Y NAME (	1)												DOCKET NUME	ER (2	2)	PAGE (3)
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h	eing (	loclar	r opec	it of	fservic	e (005	i) Or	n A	nous	at 20	). T	S 3.0	.1 was en	tered due	e to	o valve M	IOV-4-
1	404 f	ailing	to el	OSP	during	testing	Der	Pre	oper	rati	ona	1 Pro	cedure 08	00.111.	AF	W Steam	Supply
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p	roced	ure 4	-OP-	075,	"Auxili	iary Fe	edwa	ater	Sys	tem	1", (	one o	f the two	trains of	A	FW to Ur	nit 4 was
n	procedure 4-OP-075, "Auxiliary Feedwater System", one of the two trains of AFW to Unit 4 was not operable. After MOV-4-1404 was declared OOS, the valve was returned to operability prior to the reactor having to be placed in hot standby. On August 21, a cooldown of Unit 4 to below																
t	he rea	actor	havin	ng to	be pla	ced in	hot s	tan	dby.	Or	n A	ugust	21, a coo	oldown of	U	nit 4 to b	below
3	350°F was initiated. Following cooldown, valve 10-4-383 was replaced. After the completion of																
	additional maintenance, Unit 4 returned to criticality at 1615, on August 23. Valve 10-4-383 was successfully tested per POP 0800.111 at 2230 on August 23, 1986.																
																	un amainat
Cause of event: Valve MOV 4-1404 failed to close due to a wire bundle being pressed up against																	
t	the torque switch close contact spring, keeping the contact open. The reason for the failure to																
S	seat of valve 10-4-383 is not known. The valve will be returned to the manufacturer, for root cause evaluation. A LER update will be submitted upon receipt of the results of the evaluation.																
					LER UP	Juate w	VIII De	e su	omi	rtec	1 ut	on re	cerpt of	the resul	000	or the eve	alua tivil.
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	<ol> <li>The wire bundle was moved out of the way, and the valve was successfully stroked 5 times.</li> <li>The two other similar valves on Unit 4 were inspected to verify that no wire bundles could</li> </ol>																
4					lve ope				ner	0 116	spe	oreu	to verify	that no i		o undios	
3	) Val	ve 10	)-4-38	33 w	as repl	aced w	ith a	ner	N VA	lve.	an	d will	l be sent	back to t	he	manufac	turer in
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

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

## Event:

Form 366A

On August 20, 1986, at 1145, and on August 21, at 0040, with both Units 3 and 4 in mode 2, Unit 4 entered Technical Specification (TS) 3.0.1 due to Train 1 of Auxiliary Feedwater (AFW) being declared out of service (OOS). On August 20, TS 3.0.1 was entered due to valve MOV-4-1404, failing to close during testing per Preoperational Procedure 0800.111, "AFW Steam Supply Replacement Valve Test-Unit 4". On August 21, TS 3.0.1, was entered because during testing per Preoperational Procedure 0800.111, valve 10-4-383, one of the replacement 4C Steam Generator Steam Supply Check Valves, did not meet the acceptance criteria for leakage. Therefore, per procedure 4-OP-075, "Auxiliary Feedwater System", one of the two trains of AFW to Unit 4 was not operable. TS 3.8.4.b requires two independent AFW trains and a third AFW pump to be operable when both reactors are above hot shutdown. After MOV-4-1404 was declared OOS, the valve was returned to operability prior to the reactor having to be placed in hot standby. On August 21, after AFW train 1 was again declared OOS, a cooldown of Unit 4 to below 350°F was initiated, per TS 3.º.1. Following cooldown, valve 10-4-383 was replaced. After the completion of additional maintenance, Unit 4 returned to criticality at 1615, on August 23, 1986. Valve 10-4-383 was successfully tested per POP 0800.111 at 2230 on August 23, 1986.

## Cause of event:

Valve MOV 4-1404 failed to close due to a wire bundle being pressed up against the torque switch close contact spring, keeping the contact open. The reason for the failure to meet the leakage acceptance criteria of valve 10-4-383 was failure of the valve to seat properly. The cause of the valve failure to seat properly is not known. The valve will be returned to the manufacturer, Anchor/Darling, for root cause evaluation. A LER update will be submitted upon receipt of the evaluation.

## Analysis of event:

During the time valve 10-4-383 was OOS, AFW steam supply trains 1 and 2 from Unit 3 were operable. Also one steam supply in train 1 and steam supply train 2 from Unit 4 were operable. Either unit can supply steam to the AFW pumps. Based on the above, the health and safety of the public were not affected.

## Corrective action:

- 1) The wire bundle was moved out of the way, and the valve was successfully stroked 5 times.
- 2) The two other similar valves on Unit 4 were inspected to verify that no wire bundles could interfere with valve operation.
- 3) The results of POP 0800.111 were reviewed and a decision was made to replace 10-4-383 with a new valve. The old valve will be sent back to the manufacturer to determine a root cause for the failure.
- 4) The similar check valves recently installed on Unit 4 under plant change modification (PC/M) 86-009, Auxiliary Feedwater Steam Supply Valve Replacement, were satisfactorily tested as per POP 0800.111.

Additional Details: Manufacturer: Anchor/Darling. Model No.: W800149 Similar Occurrences: None

P. O. BOX 14000, JUNO BEACH, FL 33408



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SEPTEMBER 2 2 1986 L-86-379

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

Gentlemen:

Re: Reportable Event 86–15 Turkey Point Unit 4 Date of Event: August 23, 1986 Auxiliary Feedwater System Train Declared Out of Service Due to Failed Valves

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

Very truly yours,

Cawoody C. O. Woody

Group Vide President Nuclear Energy

COW/RG/gp

Attachment

cc: Dr. J. Nelson Grace, Region II, USNRC Harold F. Reis, Esquire

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