

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) DOCKET NUMBER (2)

Turkey Point Unit 3

0 5 0 0 0 2 5 0 1 OF 0 2

TITLE (4)

Main Steam Isolation Valve

EVENT DATE (6)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (5)														
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME		DOCKET NUMBER(S)												
0	1	2	7	8	6	8	6	0	0	0	5	0	0	0	0	0	0	N/A	0	5	0	0	0
0	1	2	7	8	6	8	6	0	0	0	5	0	0	0	0	0	0	N/A	0	5	0	0	0

OPERATING MODE (3) THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

POWER LEVEL (10) 0 0 0

20.402(b)	20.403(a)	20.730(a)(2)(iv)	73.716(a)
20.403(a)(1)(ii)	20.204(a)(1)	20.730(a)(2)(vi)	73.716(b)
20.403(a)(1)(iii)	20.204(a)(2)	20.730(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 305A)
20.403(a)(1)(iv)	20.730(a)(2)(iii)	20.730(a)(2)(viii)(A)	
20.403(a)(1)(v)	20.730(a)(2)(i)	20.730(a)(2)(viii)(B)	
20.403(a)(1)(vi)	20.730(a)(2)(ii)	20.730(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME: Randall D. Hart, Licensing Engineer

TELEPHONE NUMBER: 3 10 5 2 1 4 5 1 - 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 NRC	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NRC
X	S	B	F	S	Y				

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If you complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

Event: On January 27, 1986, at 5:15 p.m. while Unit 3 was commencing a unit start-up, the operability test of main steam isolation valves (MSIVs) showed that the 3C MSIV went to a partially closed position and could not close fully. Each of the two parallel instrument air supply valves had independently malfunctioned. Solenoid instrument air supply valve, SV-3-2614, had electrical continuity but when energized, the plunger did not pick-up or move. The valve and actuator are a welded assembly. The actual cause of failure was not determined, but interference in the solenoid valve internals was the most probable cause of failure. Bent contact pins at the fuse block for SV-3-2615, the redundant solenoid valve, prevented it from being energized. SV-3-2614 was replaced and the fuse block pins for SV-3-2615 were straightened. The 3C MSIV was satisfactorily tested and placed back in service at 12:30 a.m. on January 28, 1986 satisfying the 48 hour action statement of Technical Specification 3.8.3.

Cause of Event: Due to independent causes, redundant solenoid valves failed to admit instrument air to drive 3C MSIV closed. One valve did not open due to open contacts at the fuse block, and there was no light in the control room to show if this valve was energized. Mechanical interference within the other valve was the most probable cause of failure.

Corrective Actions:

- 1) Unit start-up was halted while 3C MSIV was declared out of service.
- 2) One solenoid valve was replaced and the fuse block pins were straightened.
- 3) The fuse blocks were checked for each MSIV to ensure no bent pins or loose fuse clips existed.
- 4) Each MSIV was then tested to ensure each MSIV was operable.
- 5) Appropriate procedure revisions will be made to require testing of both air supply paths to each MSIV
- 6) Upon completion of corrective actions and determination of probable cause, the Unit 3 Start-up was recommenced and the unit was placed on line at 1:59 a.m. on January 28, 1986.
- 7) The addition of a second status light is included in a current plant change modification package for upgrading MSIV operation.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Turkey Point Unit 3	DOCKET NUMBER (2) 05000250816	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		0	05	0	02	02 OF 02

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

Event: On January 27, 1986, at 5:15 p.m. while Unit 3 was commencing a unit start-up, the operability test of main steam isolation valves (MSIVs) showed that the 3C MSIV went to a partially closed position and could not close fully. Each of the two parallel instrument air supply valves had independently malfunctioned. Solenoid instrument air supply valve, SV-3-2614, had electrical continuity but when energized, the plunger did not pick-up or move. The valve and actuator are a welded assembly. The actual cause of failure was not determined, but interference in the solenoid valve internals was the most probable cause of failure. Bent contact pins at the fuse block for SV-3-2615, the redundant solenoid valve, prevented it from being energized. SV-3-2614 was replaced and the fuse block pins for SV-3-2615 were straightened. The 3C MSIV was satisfactorily tested and placed back in service at 12:30 a.m. on January 28, 1986 satisfying the 48 hour action statement of Technical Specification 3.8.3.

Cause of Event: Due to independent causes, redundant solenoid valves failed to admit instrument air to drive 3C MSIV closed. One valve did not open due to open contacts at the fuse block, and there was no light in the control room to show if this valve was energized. Mechanical interference within the other valve was the most probable cause of failure.

Analysis of Event:

The malfunctions were detected during the normal process of the start-up procedure. Simultaneous malfunction of both air supply paths was an unexpected coincidence. Existing procedures ensured that the problem was investigated and corrected prior to power increase.

Corrective Actions:

- 1) Unit start-up was halted while 3C MSIV was declared out of service.
- 2) One solenoid valve was replaced and the fuse block pins were straightened.
- 3) The fuse blocks were checked for each MSIV to ensure no bent pins or loose fuse clips existed.
- 4) Each MSIV was then tested to ensure each MSIV was operable.
- 5) Operating Surveillance Procedure OSP*072, Main Steam Isolation Valve Closure Test, will be revised to require testing of both air supply paths to each MSIV prior to the next performance of OSP*072.
- 6) Upon completion of corrective actions and determination of probable cause, the Unit 3 Start-up was recommenced and the unit was placed on line at 1:59 a.m. on January 28, 1986.
- 7) The addition of a second status light is included in a current plant change modification package for upgrading MSIV operation.

Additional Details:

The replacement valve was of the same make and model: ASCO, 3-way 3/4 inch, No. 8316A75E. Similar occurrences: None.



FEB 26 1986

L-86-87

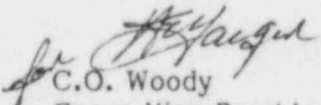
U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

Re: Reportable Event 86-05
Turkey Point Unit 3
Date of Event: January 27, 1986
Main Steam Isolation Valve

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,


C.O. Woody
Group Vice President
Nuclear Energy

COW/PLP

Attachment

cc: Dr. J. Nelson Grace, Region II, USNRC
Harold F. Reis, Esquire
PNS-LI-86-87

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