

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
Turkey Point Plant - Unit 4

DOCKET NUMBER (2)

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

PAGE (3)

TITLE (4)

Engineered Safety Features Actuation - Reactor Trip

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)
									N/A		0 5 0 0 0
0 2	1 2	8 4	8 4	0 0 2	0	0 3	1 3	8 4	N/A		0 5 0 0 0
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)									
N		20.402(b)		20.406(c)		X		50.73(a)(2)(iv)		73.71(b)	
POWER LEVEL (10)		20.406(a)(1)(i)		50.36(c)(1)				50.73(a)(2)(v)		73.71(c)	
0 1 1 5		20.406(a)(1)(ii)		50.36(c)(2)				50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)	
		20.406(a)(1)(iii)		50.73(a)(2)(i)				50.73(a)(2)(viii)(A)			
		20.406(a)(1)(iv)		50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)			
		20.406(a)(1)(v)		50.73(a)(2)(iii)				50.73(a)(2)(x)			

LICENSEE CONTACT FOR THIS LER (12)

NAME  
Jesus Arias, Jr., Regulation and Compliance Lead Engineer

TELEPHONE NUMBER

AREA CODE

3 0 5 2 4 5 1 - 2 9 1 1 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS
B	SIBPIDTI	R131619		Y					

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

While Unit 4 was at 15% power and escalating to full power from a previous unit trip (LER 251-84-001), a reactor trip occurred due to steam flow greater than feed flow coincident with low level in the 4A steam generator.

The root cause was found to be a high steam flow reading on 4A steam generator. This coupled with an actual steam generator low level made up the required logic for the reactor trip. Feedwater flow control was in the manual mode at this stage of power ascension.

Immediate corrective action taken was to perform a calibration check on the transmitter. A zero shift was corrected. The following day the transmitter was observed to be reading high again. The malfunctioning transmitter was then replaced and shop tested. The instrument loop was returned to service with no further problems and the unit was restored to full power operation.

The health and safety of the public were not affected. Similar occurrences: None.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Turkey Point Plant - Unit 4	05000251	84	002	00	02	OF	02

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

On February 12, 1984, a reactor trip occurred from 15 percent power while escalating to full power following a previous unit trip (LER 251-84-001). The root cause was found to be a high flow signal on steam flow transmitter (FT-4-475) for steam generator 4A. This feed flow/steam flow mismatch coupled with an actual 4A steam generator low level made up the required logic for a reactor trip. Instrument and Control Department staff immediately initiated an investigation into the high flow signal. The following is a description of sequence of events which occurred as part of the root cause determination for the malfunction:

- 1) Following the unit trip on 2-12-84, I and C staff performed a zero adjustment on FT-4-475 and found it shifted high. It was properly adjusted and returned to service. Reactor start-up commenced following the completion of a post trip review. All equipment operated properly.
- 2) While escalating to full power, on 2-13-84, FT-4-475 shifted high again. The bistable was placed in the tripped position. I and C made a containment entry and replaced FT-4-475 with an identical transmitter. Calibration was performed and the instrument loop was returned to service. This incident did not affect reactor power or normal unit operation.

Subsequent investigation into this event revealed that water entered the terminal side of the electronic housing of the transmitter producing corrosion of the terminal lug landings. This also caused the zero shift on the transmitter on 2/12/84. A pressure test was performed and leakage was found from the terminal side of the electronic housing. The cause for the in-leakage was determined to be a defective thread on a 90 degree stainless steel elbow used to connect the Conax connector to the transmitter housing. The transmitter manufacturer recommends the use of qualified Grafoil tape as a thread sealant. This thread sealant was applied to the elbow prior to threading the elbow into the transmitter housing. Due to the defective thread, a leak tight seal was not obtained.

In order to prevent recurrences of this type, the following corrective actions will be taken:

- 1) The source of the water that entered the transmitter was identified by a leak inspection inside containment. A plant work order has been submitted to the Maintenance Department and repairs are scheduled for the present Unit 4 refueling outage.
- 2) An inspection of similar Rosemount transmitters will be conducted. The schedule for these inspections on Unit 4 is during the present refueling outage and on Unit 3 during the upcoming refueling outage.

At this time, this incident has been determined to be an isolated case. Should the proposed investigations reveal further problems which require additional corrective actions, a follow-up report will be submitted.

The health and safety of the public were not affected.

FT-4-475 Data:

Manufacturer: Rosemount, Inc.

Serial No.: 397803 (Failed transmitter)

397812 (Replacement Transmitter)

Model No.: 1153DD6 (Failed Transmitter)



March 13, 1984  
PNS-LI-84-94

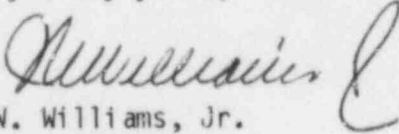
U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Gentlemen:

Re: Reportable Event 84-02  
Turkey Point Unit 4  
Date of Event: February 12, 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.  
Vice President  
Nuclear Energy

JWW/PLP:js

Attachment

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

IE22  
1/1