

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
**Turkey Point Unit 4**

DOCKET NUMBER (2)

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

PAGE (3)

TITLE (4)

**Engineered Safety Features Actuation - Safety Injection**

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	2	0	7	8	5	8	5	0	0	5	N/A	0 5 0 0 0
0	2	0	7	8	5	8	5	0	0	3	N/A	0 5 0 0 0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																														
N	<table border="1"><tr><td>20.402(b)</td><td>20.406(c)</td><td>X</td><td>80.73(a)(2)(iv)</td><td>73.71(b)</td></tr><tr><td>20.406(a)(1)(i)</td><td>80.36(c)(1)</td><td></td><td>80.73(a)(2)(v)</td><td>73.71(c)</td></tr><tr><td>20.406(a)(1)(ii)</td><td>80.36(c)(2)</td><td></td><td>80.73(a)(2)(vii)</td><td>OTHER (Specify in Abstract below and in Text, NRC Form 366A)</td></tr><tr><td>20.406(a)(1)(iii)</td><td>80.73(a)(2)(i)</td><td></td><td>80.73(a)(2)(viii)(A)</td><td></td></tr><tr><td>20.406(a)(1)(iv)</td><td>80.73(a)(2)(ii)</td><td></td><td>80.73(a)(2)(viii)(B)</td><td></td></tr><tr><td>20.406(a)(1)(v)</td><td>80.73(a)(2)(iii)</td><td></td><td>80.73(a)(2)(ix)</td><td></td></tr></table>	20.402(b)	20.406(c)	X	80.73(a)(2)(iv)	73.71(b)	20.406(a)(1)(i)	80.36(c)(1)		80.73(a)(2)(v)	73.71(c)	20.406(a)(1)(ii)	80.36(c)(2)		80.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)	20.406(a)(1)(iii)	80.73(a)(2)(i)		80.73(a)(2)(viii)(A)		20.406(a)(1)(iv)	80.73(a)(2)(ii)		80.73(a)(2)(viii)(B)		20.406(a)(1)(v)	80.73(a)(2)(iii)		80.73(a)(2)(ix)	
20.402(b)	20.406(c)	X	80.73(a)(2)(iv)	73.71(b)																											
20.406(a)(1)(i)	80.36(c)(1)		80.73(a)(2)(v)	73.71(c)																											
20.406(a)(1)(ii)	80.36(c)(2)		80.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)																											
20.406(a)(1)(iii)	80.73(a)(2)(i)		80.73(a)(2)(viii)(A)																												
20.406(a)(1)(iv)	80.73(a)(2)(ii)		80.73(a)(2)(viii)(B)																												
20.406(a)(1)(v)	80.73(a)(2)(iii)		80.73(a)(2)(ix)																												

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER
NAME	AREA CODE	
R. L. Teuteberg, Regulation and Compliance Engineer	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
X	J E	F U B	5 6 9	Y					

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

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

**Event:** On February 7, 1985, at 6:52 a.m., 12 minutes after a Unit 4 reactor trip, a spurious safety injection signal was generated in the Engineered Safety Features system with no resultant safety injection flow delivered to the reactor coolant system. The initiation of the automatic safety injection signal resulted from the coincident Engineered Safety Features logic of "High Steam Generator Flow" combined with an actual "Low Average Reactor Coolant Temperature (Tavg)". Following the safety injection initiation, the Emergency Operating Procedure EP 20000 was followed for immediate actions and diagnostics. The safety injection actuation system was reset at 6:56 a.m., and charging flow was re-established. Unit 4 was stabilized in a hot shutdown condition for further investigation and corrective measures. All equipment actuated by the Engineered Safety Features Actuation Signals functioned as designed. A Significant Event notification was made to the NRCOC via ENS pursuant to 10 CFR 50.72 as a result of the safety injection initiation. The health and safety of the public were not affected. Similar Occurrences: LER 250-84-002. Refer to LER 251-85-004 for a report of the reactor trip.

**Cause of Event:** An investigation by plant personnel into the cause of the spurious safety injection initiation revealed that a blown fuse on flow comparator FC-485 of steam generator "B" coincident with a transient electrical spike of indeterminate origin in the circuitry of the flow comparator FC-475 for steam generator "A" combined with an actual low Tavg was the underlying cause of this event.

**Corrective Actions:** Corrective measures which were immediately taken to remedy the consequences of this event on Unit 4 include the following:

- 1) Emergency Operating Procedure EP 20000 was initiated for immediate corrective actions and diagnostics and the unit was placed in a hot shutdown condition.
- 2) Instrumentation calibration checks were performed for "A" steam generator flow instrumentation.
- 3) The blown fuse, which was the result of cycling of the respective bistables, was replaced.

3503220397 850311  
PDR ADOCK 05000251  
S PDR

IE22 v1



MAR 11 1985

L-85-107

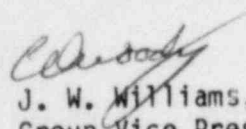
U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Gentlemen:

Re: Reportable Event 85-05  
Turkey Point Unit 4  
Date of Event: February 7, 1985  
Engineered Safety Features Actuation - Safety Injection

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,

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

JWW/SAV/js

Attachment

cc: Dr. J. Nelson Grace, Region II, USNRC  
Harold F. Reis, Esquire  
PNS-LI-85-100-1

*IE22*  
*1/1*