

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Pilgrim Nuclear Power Station - Unit No. 1
DOCKET NUMBER (2) 0 5 0 0 0 2 9 3
PAGE 1 1 OF 0 2

TITLE (4) Reactor Scram on Turbine High Vibration Signal

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	4	8	5	8	5	0	0	9	0	5	0	0	0		
												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)																					
POWER LEVEL (10)	0	8	5	20.402(b)					20.408(e)					<input checked="" type="checkbox"/> 90.73(a)(2)(iv)					73.71(b)				
				20.408(a)(1)(i)					90.36(a)(1)					90.73(a)(2)(v)					73.71(c)				
				20.408(a)(1)(ii)					90.36(a)(2)					90.73(a)(2)(vi)					OTHER (Specify in Abstract below and in Text, NRC Form 308-A)				
				20.408(a)(1)(iii)					90.73(a)(2)(i)					90.73(a)(2)(vii)(A)									
				20.408(a)(1)(iv)					90.73(a)(2)(ii)					90.73(a)(2)(vii)(B)									
				20.408(a)(1)(v)					90.73(a)(2)(iii)					90.73(a)(2)(x)									

LICENSEE CONTACT FOR THIS LER (12)
NAME Paul J. Hamilton - Senior Plant Engineer
TELEPHONE NUMBER
AREA CODE 6 1 7
7 4 6 - 7 9 0 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										
X	J	J	D	E	T	G	0	8	0	Y										

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO		-	-	-

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

On 4/4/85, a reactor scram occurred as the result of a turbine trip on a high vibration signal. Cause of the trip was the result of inadequate lubrication of a turbine vibration detector at the point of contact with the main shaft of the turbine.

Corrective action was to restore lube oil flow to the detector by cleaning the restricting orifice and flushing the supply piping. The vibration detector was replaced. The unit was returned to service on 4/5/85.

This event did not impact the health and safety of the public.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Pilgrim Nuclear Power Station Unit No. 1	DOCKET NUMBER (2) 0 5 0 0 0 2 9 3 8 5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		— 0 0 9	— 0 0	0 2	OF	0 2	

TEXT (If more space is required, use additional NRC Form 388A's) (17)

On 4/4/85, while decreasing power in response to a high vibration alarm on the #9 turbine bearing (alterex front support), the reactor scrammed from 85% power. The scram occurred approximately 6 minutes after the high vibration alarm was received and the scram sequence was normal. A post-trip review indicated that the turbine trip resulted from a turbine high vibration signal which initiated "generator trip" and "load reject" signals to the Reactor Protection System (RPS) and a subsequent reactor scram.

Investigation found that the teflon tip of the vibration detector for the #9 bearing was damaged. Cause of the tip damage was the result of a pin-hole sized lube oil orifice which became blocked and prevented adequate lubrication at the point where the vibration detector tip rides on the main shaft of the turbine. The vibration detector, Model #5470364G43, is manufactured by General Electric.

Corrective action was to clean the orifice, flush the supply piping, and replace the vibration detector. In addition, the "sister" orifice and detector (#10 bearing) were inspected and found satisfactory. A search of records indicates no other turbine trips of this nature have occurred since the vibration trip was installed during RFO #4 at Pilgrim Station.

The unit was returned to service on 4/5/85 at approximately 1340 hours.

This event did not impact the health and safety of the public.

BOSTON EDISON COMPANY
800 BOYLSTON STREET
BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON
SENIOR VICE PRESIDENT
NUCLEAR

May 2, 1985
BECO Ltr. #85-083

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Washington, D.C. 20555

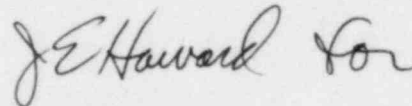
Docket Number 50-293
License DPR-35

Dear Sir:

The attached Licensee Event Report 85-009-00, "Reactor Scram on Turbine High Vibration Signal," is hereby submitted in accordance with the requirements of 10CFR50.73.

If there are any questions on this subject, please do not hesitate to contact me.

Respectfully submitted,



W. D. Harrington

PH:caw

Enclosure: LER 85-009-00

cc: Dr. Thomas E. Murley
Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Standard BECO LER Distribution

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