

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Pilgrim Nuclear Power Station	DOCKET NUMBER (2) 0 5 0 0 0 2 9 3	PAGE (3) 1 OF 0 2
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TITLE (4)
HFA Relay Problem

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)																																																																																													
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="12">THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)</td> </tr> <tr> <td colspan="3">OPERATING MODE (9) N</td> <td colspan="3">20.402(b)</td> <td colspan="3">20.406(e)</td> <td colspan="3">50.73(a)(2)(iv)</td> <td colspan="3">73.71(b)</td> </tr> <tr> <td colspan="3">POWER LEVEL (10) 0 0 0</td> <td colspan="3">20.406(a)(1)(i)</td> <td colspan="3">50.36(c)(1)</td> <td colspan="3">50.73(a)(2)(v)</td> <td colspan="3">73.71(c)</td> </tr> <tr> <td colspan="3"></td> <td colspan="3">20.406(a)(1)(ii)</td> <td colspan="3">50.36(c)(2)</td> <td colspan="3">50.73(a)(2)(vii)</td> <td colspan="3" rowspan="4">OTHER (Specify in Abstract below and in Text, NRC Form 365A)</td> </tr> <tr> <td colspan="3"></td> <td colspan="3">20.406(a)(1)(iii)</td> <td colspan="3">50.73(a)(2)(i)</td> <td colspan="3">50.73(a)(2)(viii)(A)</td> </tr> <tr> <td colspan="3"></td> <td colspan="3">20.406(a)(1)(iv)</td> <td colspan="3">50.73(a)(2)(ii)</td> <td colspan="3">50.73(a)(2)(viii)(B)</td> </tr> <tr> <td colspan="3"></td> <td colspan="3">20.406(a)(1)(v)</td> <td colspan="3">50.73(a)(2)(iii)</td> <td colspan="3">50.73(a)(2)(x)</td> </tr> </table>												THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)												OPERATING MODE (9) N			20.402(b)			20.406(e)			50.73(a)(2)(iv)			73.71(b)			POWER LEVEL (10) 0 0 0			20.406(a)(1)(i)			50.36(c)(1)			50.73(a)(2)(v)			73.71(c)						20.406(a)(1)(ii)			50.36(c)(2)			50.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form 365A)						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)		
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LICENSEE CONTACT FOR THIS LER (12)

NAME P. J. Hamilton	TELEPHONE NUMBER AREA CODE: 6 1 7 7 4 6 - 7 9 0 0
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
B	J M	R L Y	G 0 8 0	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

On 6/26/84, during a refueling outage, an HFA relay in the Primary Containment Isolation System was found to be hot and smoking. The relay is a GE 51 series AC type and is normally energized. There was no fuel in the Reactor Vessel at the time of the event.

The relay was immediately de-energized and replaced with a GE "Century" series relay. Cause is attributed to previously identified generic HFA relay problems.

Long-term corrective action is being developed and will be included in the response to IE Bulletin No. 84-02 entitled "Failures of General Electric Type HFA Relays in Use in Class IE Safety Systems."

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 4	- 0 1 0 9	- 0 1 0	0 2	OF 0 2

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

On 6/26/84, during a refueling outage, HFA Relay 16A-K5C in the Primary Containment Isolation System (PCIS) was observed to be smoking. The relay was discovered when control room operators noticed a burning smell coming from the panel (915) which contains the relay. The nameplate of the faulty relay is GE Model 12HFA51A49F, Type HFA, 120V, 60 Cycles. The subject relay is in the A channel of the PCIS and provides TIP withdrawal, closure of RHR/shutdown cooling, and discharge to radwaste valves. This relay is normally energized and contains a nylon bobbin coil.

The relay was replaced with a GE Century Series Relay, Model #12HFA151A9F, Type HFA, 120V, 60 Cycles. Replacement was in accordance with General Electric (GE) Service Information Letter (SIL) #44, Supplements 2 and 4.

Cause of the relay smoking is attributed to the generic problems associated with HFA relays previously identified in several GE Service Advice Letters (SAL's), SIL's, and IE Bulletin 84-02. A corrective action plan is being developed to address the generic HFA relay problem and will be included in our response to IE Bulletin 84-02.

There have been six previously identified HFA relay problems, all of which have been with normally energized, AC, nylon bobbin coil relays.

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

July 17, 1984

BECo Ltr. #84-109

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U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

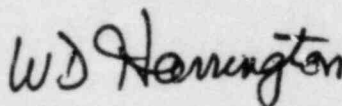
Docket Number 50-293
license DPR-35

Dear Sir:

The attached Licensee Event Report 84-009-00, "HFA Relay Problem," 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 84-009-00

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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