NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Pilgrim Nuclear Power Station - Unit #1	0 5 0 0 0 2 9 3	1 OF 0 2

TITLE (4)
Reactor Scram on Load Reject

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 9	0 1	8 5	8 5	0 2 5	0 0	0 9	2 7	8 5		0 5 0 0 0
										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)	20.405(c)	X 50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
0 3 2		20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Paul J. Hamilton - Sr. Plant Engineer	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 NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	

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)

On 9/1/85, at approximately 0521 hours, a reactor scram occurred when an insulator in the switchyard arced to ground and disintegrated. The arcing was caused by salt build-up on the insulators as the result of a heavy ocean storm. A live switchyard washdown was in progress when the event occurred. The insulator that failed was located between the generator and the first switchyard isolation, thus is unisolable without removing the unit from the grid.

Cause of the event was due to forces of nature (e.g., wind and salt air). Corrective action was to replace the insulator and perform a review of the washdown procedures to ensure adequacy.

The unit was synchronized to the grid on 9/7/85 at approximately 1243 hours. A previous event of a similar nature was reported in LER 83-007.

IE22
1/1

NRC Form 366
(9-83)

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Pilgrim Nuclear Power Station	0 5 0 0 0 2 9 3	8 5	— 0 2 5	— 0 0	0 2 OF 0 2

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

On 9/1/85, at approximately 0521 hours, a reactor scram occurred. The scram resulted from a load reject which occurred when a vertical insulator in the switchyard arced over to ground and disintegrated. Just prior to the event, electrical maintenance personnel were performing a live switchyard washdown in an effort to reduce arcing caused by salt buildup from a heavy ocean storm. The insulator that failed was located between the generator and the first switchyard isolation, thus is unisolable without removing the unit from the grid. The reactor was in steady-state operation at 32% power (reduced for a condenser backwash) when the scram occurred.

A post-trip review concluded that the scram sequence was normal with the exception of the Channel A1 reactor high pressure trip which did not annunciate as anticipated. A subsequent calibration check found the trip setpoint for A1 within Technical Specification limits ($\approx$ 1090 psig), but higher than the other three high pressure trip points ($\approx$ 1060 psig - Channels A2, B1, B2).

Cause of the event was due to forces of nature (e.g., high winds and salt air). Corrective action was to replace the insulator. A review of switchyard washdown procedures was conducted to ensure adequacy. No procedure changes were required.

On 9/7/85, at approximately 1243 hours, the unit was synchronized to the grid.

A previous occurrence of a similar nature was reported in LER 83-007.

BOSTON EDISON COMPANY
800 BOYLSTON STREET
BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON
SENIOR VICE PRESIDENT
NUCLEAR

September 27, 1985
BECo Ltr. #85-176

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

Docket Number 50-293
License DPR-35

Dear Sir:

The attached Licensee Event Report 85-025-00, "Reactor Scram on Load Reject," 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

W. D. Harrington

PH:caw

Enclosure: LER 85-025-00

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

IE22
1/1