

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 1** PAGE (3) **OF 0 2**

TITLE (4) **Jet Pump Instrumentation Nozzle Indications**

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	2	0	8	4	8	4	0	1	3	0	5	0	0	0		
												0	5	0	0	0	

OPERATING MODE (9) **N** THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)

POWER LEVEL (10) 0, 0, 0	20.402(b)	20.406(a)	50.73(a)(2)(iv)	73.71(b)
	20.406(a)(1)(i)	50.36(a)(1)	50.73(a)(2)(v)	73.71(a)
	20.406(a)(1)(ii)	50.36(a)(2)	50.73(a)(2)(vi)	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)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME **Paul J. Hamilton - Plant Engineer** TELEPHONE NUMBER **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 NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS
B	A, D	N, Z, L	G, O, S, O	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-space typewritten lines) (16)

On 9/20/84, while shutdown for refueling and recirculation pipe replacement, indications of cracking, in the area of the weld connecting the reactor vessel jet pump instrumentation nozzle to the jet pump instrumentation seal, were identified.

Macro-etching of the nozzle to instrumentation seal revealed that a 3/8" band of 304SS material exists in the weld assembly. The band is apparently the remainder of the original safe-end which should have been removed during the furnace sensitized safe-end replacement by Combustion Engineering (CE) in 1969.

Present plans are to fabricate a weld overlay prior to startup.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Pilgrim Nuclear Power Station - Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 2 9 3 8 4	LER NUMBER (8)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		84	0113	010	02	OF 02

TEXT (If more space is required, use additional NRC Form 368A's) (17)

On 9/20/84 while shutdown for refueling and recirculation pipe replacement, the welds connecting the reactor vessel jet pump instrumentation nozzle to the jet pump instrumentation seals were examined by liquid penetrant testing. Indications were found on each weldment, that were confirmed by the construction x-ray as surface weld defects. These defects were removed by grinding and accepted upon re-examination.

As a result of visual observation of the jet pump instrumentation welds, one weld on (A) nozzle required additional investigation to determine the interface between the vessel material (P-3), weld material Alloy 182 and the penetration seal, which was solution annealed after the weld surface was buttered with Alloy 182.

Upon receipt of the travelers of CE, a dimensional check was made and the extra projection on the (A) nozzle in the job data tends to correlate with the field findings. The results show that (A) nozzle projects approximately 5/8" to 3/4" further from the vessel axial center line than the (B) nozzle.

Macro-etching of the (A) nozzle to instrumentation seal revealed that a 3/8" band of 304SS material exists in the weld assembly. The band is apparently the remainder of the original safe-end which should have been removed during the furnace sensitized safe-end replacement by CE in 1969. Further confirmation was provided by chemical analysis of filings removed from the outside diameter surface.

An ultrasonic examination procedure was qualified for the weld configuration and examination results show that indications exist in the heat affected zone of the furnace sensitized stainless steel adjacent to the nozzle weld.

Present plans are to fabricate a weld overlay prior to startup.

This event is considered an isolated incident which did not impact the health and safety of the public.

BOSTON EDISON COMPANY
800 BOYLSTON STREET
BOSTON, MASSACHUSETTS 02199

October 19, 1984

BECo Ltr. #84-176

WILLIAM D. HARRINGTON
SENIOR VICE PRESIDENT
NUCLEAR

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

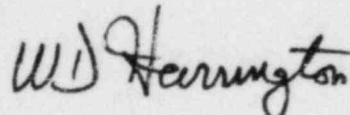
Docket Number 50-293
License DPR-35

Dear Sir:

The attached Licensee Event Report 84-013-00, "Jet Pump Instrumentation Nozzle Indications," 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:ko

Enclosure: LER 84-013-00

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

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