

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) CRYSTAL RIVER UNIT 3	DOCKET NUMBER (2) 0 5 0 0 0 3 0 2	PAGE (3) 1 OF 0 3
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TITLE (4)
REACTOR BUILDING CONTAINMENT PENETRATION NOT DESIGNED IN ACCORDANCE WITH FSAR

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 1	1 3	8 4	8 4	0 0 1	0 1	0 6	2 6	8 4	N/A		0 5 0 0 0
									N/A		0 5 0 0 0

OPERATING MODE (9) 6	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)										
POWER LEVEL (10) 0 0 0	20.402(b)	20.405(e)	50.73(a)(2)(iv)	73.71(b)							
	20.405(a)(1)(i)	50.36(e)(1)	X 50.73(a)(2)(v)	73.71(e)							
	20.405(a)(1)(ii)	50.36(e)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)							
	20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)								
	20.405(a)(1)(iv)	X 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)(ix)								

LICENSEE CONTACT FOR THIS LER (12)

NAME R. H. Thompson, Engineer I	TELEPHONE NUMBER
	AREA CODE: 9 0 4 7 9 5 1 - 3 8 0 2

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
A	NH	PIEN	C3110	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (if yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

During a refueling outage (May 1983) the end cap of a penetration in the reactor containment building was incorrectly cut off. Subsequently a plant modification package was issued to replace the end cap. A routine review of the modification package on January 13, 1984, discovered several design specifications that were inconsistent with FSAR commitments. Personnel error is the cause of this event in that both the design engineer (on contract to Florida Power Corporation) and the verification engineer (a Florida Power Corporation employee) failed to follow applicable engineering procedures. The verification engineer has been retrained on following applicable engineering procedures. The design engineer no longer works for Florida Power Corporation. The results of the local leak rate test that was performed on the penetration (July 2, 1983) and subsequent engineering evaluation (January, 1984) indicate that the end cap will perform its intended safety function under the worst case LOCA conditions and thus justifies continued operation with the as-built penetration until the next refueling outage (March, 1985). An engineering evaluation was performed which concluded that the penetration is acceptable "as is" for the remainder of plant life.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) CRYSTAL RIVER UNIT 3	DOCKET NUMBER (2) 050030284	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	001	01	02	OF	03

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

BACKGROUND

In May, 1983, during a refueling outage, the end plate on the reactor building side of spare penetration #353¹ was mistakenly cut off. A plant modification package was issued on May 19, 1983, to replace the end cap on this penetration. The modification was installed on July 5, 1983.

IDENTIFICATION OF EVENT

A routine review of the modification package on January 13, 1984, discovered:

1. ASTM A-36 was specified as the new end plate material (FSAR sections 5.2.2.4 and 5.2.2.4.2 require SA-516 Grade 60, impact tested to SA-300, and having certified mill test reports).
2. All welding was required to be inspected per B31.7 - 1969. (FSAR sections 5.2.2.4.1, 5.2.2.4.3, and 5.2.2.4.4 require the NDE to be per ASME Section III Class B.)
3. The Modification Approval Record (MAR) specified a "soap test" to be performed on the welds on the Auxiliary Building side of the penetration during the Integrated Leak Rate Test. This is not in compliance with 10CFR50, Appendix J, Section IV. A, "Containment Modification." The proper test, however, was performed despite the MAR specifying the wrong test.
4. The safety evaluation in the MAR indicated that no changes to the FSAR were required. (This is a violation of Safety Related Engineering Procedure (SREP) 6 Section V.3, in that the Design Engineer failed to identify the FSAR change, and a violation of SREP-4 in that the Verification Engineer failed to detect the error.)
5. The applicable design drawing, S-521-036, was not changed to reflect the changes in the end plate thickness, plate material, and NDE. (This is a violation of SREP-2, Section D in that the Design Engineer did not correctly translate the design information onto the drawing and issue it as an interim drawing, and a violation of SREP-4 in that the Verification Engineer failed to detect the error.)

CAUSE OF EVENT

Personnel error is the cause of this event in that both the Design Engineer (on contract to Florida Power Corporation) and the Verification Engineer (a Florida Power employee) failed to follow applicable engineering procedures.

¹NH, PEN, Chicago Bridge & Iron (C310)

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

ANALYSIS OF EVENT

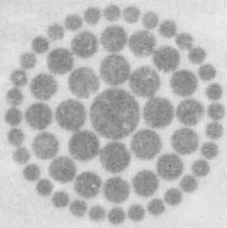
An engineering evaluation was performed subsequent to the discovery of the erroneous design specifications. The results of the engineering evaluation and the local leak rate test that was performed on the penetration after the end cap was installed (July 2, 1983) indicate that the end cap will perform its intended safety function under the worst case LOCA conditions, thus justifying continued operation with the as-built penetration until Refuel V (March, 1985). An engineering evaluation was performed to review the above five discrepancies and to determine if the as-built reactor containment building penetration is adequate for the remainder of plant life (beyond Refuel V) or if another modification is required to make the penetration consistent with FSAR commitments. The engineering evaluation concluded that the penetration is acceptable "as is" for the remainder of plant life. A copy of the detailed evaluation is available on site and has been forwarded to the NRC Senior Resident Inspector.

The applicable Safety Related Engineering Procedures governing plant modifications were also reviewed and are considered adequate if properly used.

Several other reactor containment building penetration plant modification packages were reviewed and found to comply with the FSAR. Hence, this event appears to be an isolated occurrence.

CORRECTIVE ACTION

Both the Design Engineer and the Verification Engineer had been trained in the use of applicable Safety Related Engineering Procedures governing plant modifications. The Verification Engineer has been retrained on following applicable engineering procedures. The Design Engineer no longer works for Florida Power Corporation.



**Florida
Power**
CORPORATION

June 26, 1984
3F0684-15

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

Subject: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72
Licensee Event Report No. 84-001-01

Dear Sir:

Enclosed is Revision 1 to Licensee Event Report No. 84-001 and the attached supplementary information sheet, which are submitted as stated in Florida Power Corporation's submittal of the subject LER on February 10, 1984.

Should there be any questions, please contact this office.

Sincerely,

G.R. Westafer
Manager
Nuclear Operations Licensing and Fuel Management

RHT/nsw

Enclosure

cc: Mr. James P. O'Reilly
Regional Administrator, Region II
Office of Inspection & Enforcement
U.S. Nuclear Regulatory Commission
101 Marietta Street N.W., Suite 2900
Atlanta, GA 30323

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