



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report Nos. 50-302/79-25

Licensee: Florida Power Corporation
3201 34th Street, South
St. Petersburg, Florida 33733

Facility Name: Crystal River Unit No. 3

Docket No. 50-302

License No. DPR-72

Inspection at Crystal River site near Crystal River, Florida

Inspector: Nick Economos 7-6-79
N. Economos Date Signed

Approved by: A. R. Herdt 7-9-79
A. R. Herdt, Section Chief, RCES Branch Date Signed

SUMMARY

Inspection on June 16-19, 1979

Areas Inspected

This special, unannounced inspection involved 44 inspector hours on-site in the area of radiographic examination of feedwater pipe welds.

Results

No apparent items of noncompliance or deviation were identified.

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DETAILS

1. Persons Contacted

Licensee Employees

- *G. Beatty, Jr., Plant Manager
- *J. Cooper, Jr., Compliance Engineer
- *S. Johnson, II, Inservice Inspection Engineer
- J. Barrett, Maintenance Engineer
- *C. Hicks, Corporate Level III Examiner

Other Organizations

- Branch Laboratories, Inc.
- D. Dodd, Level III Examiner
- J. Peterson, Level II NDE Technician

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on June 19, 1979 with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Radiography of Main and Auxiliary Feedwater Lines

This inspection was performed on account of the NRC's request that the licensee radiograph certain weldments in the emergency feedwater (EFW) and main feedwater (FW) lines of steam generator B in order to verify weld integrity. The licensee and RII agreed to radiograph a total of sixteen welds which were as follows: (1) each of the four welds in one feedwater and one emergency feedwater riser; both located at or near the ring-header tee, (2) the three welds in the main feedwater ring-header tee and, the last weld on the main feedwater line prior to the first restraint off the main feedwater ring-header, (3) the last weld in the vertical leg on the emergency feed line to the emergency ring-header and, the two subsequent

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welds on the ring-header elbow. Numerical identification and other weld details are listed in the table below.

Main Feedwater Line, OTSG-"B"

<u>Weld Number</u>	<u>Description</u>	<u>ISO</u>	<u>Size</u>	<u>Comments</u>
FW-130B	Ell to Pipe	SK-106C	14"sch.80	Linear Indication (nonfusion) stations 3 and 5
FW-27A	Pipe to Ell	SK-106C	14"sch.80	
FW-27	Ell to Tee	SK-106C	14"sch.80	
MK-124 to MK123	Toe to Header	B&W-134922	14"sch.80	
MK-124 to MK120	Toe to Header	B&W-134924	14"sch.80	
MK-124 to MK125*	Toe to 3" lg. Wld. Neck flange	B&W-134924	14"sch.80 3"lg to wld. Neck	Linear Indication (nonfusion) station 3 to 0
MK-132 to	Flange to Pipe	B&W-134924	3"sch.80	Linear Indication (nonfusion) Station 1-2
MK-133 to MK-134*	Pipe to Ell198	B&W-134924	3"sch.80	
MK-134 to MK135*	Ell to Upper Flange	B&W-134924	3"sch.80	

Emergency Feedwater Line, OTSG-"B"

<u>Weld Number</u>	<u>Description</u>	<u>ISO</u>	<u>Size</u>
EF-58AF	Pipe to Pipe (dutchman)	SK-108C	6"sch.80
EF-59	Pipe to Ell	SK-108C	6"sch.80 - 90 ° Ell extra strong

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<u>Weld Number</u>	<u>Description</u>	<u>ISO</u>	<u>Size</u>
MK-173 to MK-A174	Ell to Header	SK-108C	6"sch.80
MK-A174 to MK-179	Flange to Header	B&W- 134926	6"Sch.80/3" long weld neck
MK-132 to MK-338	Flange to Pipe	B&W- 134925, -134923	3"sch.80
MK-338 to MK-134	Pipe to Ell	B&W- 134925	3"sch.80
MK134 to MK-138	Ell to Upper	B&W- 134925 134923	3"sch.80

Both lines were originally fabricated and tested in accordance with USAS Power Piping Code B31.1.0 1967 Edition thru March 1969 Erratum. According to Table 136.5.1 of this code, there was no requirement for surface or volumetric examination to be performed on these lines. Erection fabrication drawings did specify magnetic particle inspection (MT) on all weldments and radiography on the 14 inch diameter tee of the ring-header of the FW line. Radiography on the designated welds was being performed by Branch Radiographic Laboratories Inc. (BRLI) in accordance with RT procedure ISI-300 R/8. Results of radiographic review disclosed no evidence of service related indications on any of the welds checked. Fabrication related indications were noted in three main feedwater line welds, two in the three inch riser and one in a 14 inch diameter shop fabricated weld. The licensee has agreed to examine these welds again (monitor) during two subsequent ISI inspections and the inspector identified this matter as inspector followup item (79-25-01).

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