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August 25, 1983

U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW
Suite 3100
Atlanta, Georgia 30303

BFRO-50-259/83049 R9

Reported under Technical Specification 6.7.2.a.(3)

Telecopy Date: 8/25/83 Time:

Date of Occurrence: 8/25/83 Time of Occurrence: 0800 Unit 1

Technical Specification Involved: 3.6.G

Conditions Prior to Occurrence

Unit 1 in refueling outage
Unit 2 at 3139 MWt
Unit 3 at 3081 MWt

Identification and Description of Occurrence

Weld DCS-1-7 (core spray) has an intermittent indication on the pipe side of the weld that is 360-degrees in length and approximately 41% through wall depth. This is a 12-inch, 304 stainless steel, schedule 80 pipe. The cracking is between the manual isolation valve and the testable check valve (inboard containment isolation valve).

Weld DSRWC-1-3 (reactor water cleanup) has two indications that are approximately 5" long between 11:30 and 2:30 and 1-1/2" long between 8:30 and 9:30 with a through-wall depth of greater than 80%. This is a 6-inch, 304 stainless steel, schedule 304 pipe. The cracking is between the inboard and outboard containment isolation valves.

Weld DCS-1-8 (core spray) has two indications that are approximately 9" long between 12:30 and 3:30 and 3" long between 9:30 and 10:30 with a through-wall depth of approximately 30%. This is a 12-inch, 304 stainless steel, schedule 80 pipe. The cracking is on the reactor vessel side of the pipe-to-valve weld on valve HCV-75-27 (manual isolation valve).

Weld DSRWC-1-2 (reactor water cleanup) has an indication that is approximately 3" long between 12:00 and 1:00 with a through-wall depth of greater than 50%. This is a 6-inch, 304 stainless steel, schedule 80 pipe. The cracking is between the inboard and outboard containment isolation valves.

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Corrective Action

Because of the additional weld cracks discovered, the total number of welds to be inspected has been increased from 33 to 79 (see attachment for the number of welds per system and the inspection status). This includes all stainless steel welds greater than 1" diameter in all safety-related systems. These 79 welds are composed of class 1 and 2 stainless steel and dissimilar metal (carbon steel to stainless steel) circumferential butt welds that fall within the scope of Section XI. This will consist of:

- . Class 1, stainless steel welds on the CS System, RWCU System and on the RHR head spray line.
- . Class 1 and 2, dissimilar metal (carbon steel to stainless steel) welds.
- . Class 2, stainless steel portion of the CS System and RHR discharge piping.

Update Item

To date the attached are our inspection results.

Welds DRHR-1-11, 1-2, TRHR-1-190, and RCRD-1-49 were inspected 8/23/83 and found to be okay.

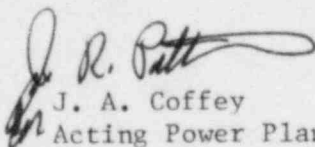
Welds DCS-1-1, 1-3, 1-12 (core spray) could not be UT'ed due to physical configuration. Weld DHS-1-1 (head spray) was PT'ed on the I.D., since it could not be UT'ed due to physical configuration.

Welds DCS-1-1A, DRWC-1-4E, DSHS-1-1, and 1-2 were inspected 8/24/83 and found to be okay.

Weld CS-1-69 (core spray) has two indications that are approximately 3" long between 12:00 and 1:00 and 9" long between 6:00 and 9:00 with a through-wall depth of approximately 27%. This is a 12-inch, 304 stainless steel, schedule 80 pipe. The cracking is on the elbow side of the elbow to valve weld at valve FCV 75-53 (flow control valve).

Weld DCS-1-2 (core spray) has an intermittent indication on the elbow side of weld that is 360° in length and approximately 35% through-wall in depth. This is a 12-inch, 304 stainless steel, schedule 80 pipe. The cracking is on the elbow side of the elbow to valve weld at valve FCV 75-25 (flow control valve).

Weld DRWC 1-1A (reactor water cleanup) has a through-wall crack located at the 3:00 position. The crack is on the riser side of the weld which extends in an axial direction and approximately 1/16" long. This is a 6-inch, 304 stainless forged weldolet.



J. A. Coffey
Acting Power Plant Superintendent
Browns Ferry Nuclear Plant

ATTACHMENT - BFRO-50-259/83049 R9

| | <u>Total Inspection Required</u> | <u>Inspection Complete</u> | <u>Inspection Satisfactory</u> | <u>Welds with Cracks</u> | <u>Under Evaluation</u> |
|------------------|--------------------------------------|--------------------------------|------------------------------------|------------------------------|-----------------------------|
| Core Spray | 34 | 34 | 29* | 4 | 0 |
| RWCU | 14 | 14 | 11 | 3 | 0 |
| RHR (Class 1) | 1 | 0 | 0 | 0 | 0 |
| RHR (Head Spray) | 27 | 26 | 26* | 0 | 0 |
| RHR (Discharge) | 2 | 0 | 0 | 0 | 0 |
| CRD | <u>1</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| TOTAL | 79 | 74 | 76 | 7 | 0 |

ESTIMATED COMPLETION DATE:

August 25, 1983

This is an update of the event first reported previously on 8/11/83, and includes the results through 0800 on 8/25/83. This information was provided verbally to Region II, on 8/23, 8/24, and 8/25/83.

* Denotes one weld on core spray and one weld on head spray were PT'ed instead of UT'ed due to physical configuration.