Nebraska Public Power District

COOPER NUCLEAR STATION
P.O. BOX 98, BROWNVILLE, NEBRASKA 68321
TELEPHONE (402) 825-3811

CNSS790240

May 23, 1979

Mr. K. V. Seyfrit
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region IV
611 Ryan Plaza
Suite 1000
Arlington, Texas 76011

Dear Sir:

This report is submitted in accordance with Section 6.7.2.B.2 of the Technical Specifications for Cooper Nuclear Station and discusses a reportable occurrence that was discovered on April 24, 1979. A licensee event report form is also enclosed.

Report No.: 50-298-79-10
Report Date: May 23, 1979
Occurrence Date: April 24, 1979
Facility: Cooper Nuclear Station
Brownville, Nebraska 68321

Identification of Occurrence:
Condition leading to operation in a degraded mode permitted by a limiting condition for operation as delineated in Section 3.6.G of the Technical Specifications.

Conditions Prior to Occurrence:
Reactor shutdown for scheduled refueling.

Description of Occurrence:
During performance of scheduled inservice inspection, a surface linear indication was noted in weld RAS-CF-13.

Designation of Apparent Cause of Occurrence:
The apparent cause of the linear indication in weld RAS-CF-13 is lack of fusion near the weld surface in the original weld.

Analysis of Occurrence:
This defect did not prevent continued operation of the associated systems. The associated systems are the steam condensing mode of the RHR System and the High Pressure Coolant Injection pump turbine.

The indication originated in the weld and extended from the toe of the weld and runs 3/4" perpendicular to the weld. The indication was found by liquid penetrant technique and ultrasonics. Review of the original radiograph showed no relevant indication. The weld was radiographed, concentrating the direction of the source along the plane of the weld bevel. This technique showed an area of lack of fusion near the surface at the location of the defect.

The weld is located in the main steam supply to the "A" Residual Heat Removal (RHR) heat exchanger. The piping is 8" schedule 100 with a minimum wall of .440". The wall thickness in the area of the repair was .560". The weld is in the Class II portion downstream of main steam isolation valves for the "A" and "B" RHR heat exchangers and high pressure coolant injection pump turbine and upstream of the pressure control valves for the steam supply to the "A" RHR heat exchanger.

In the event the indication propagated into a through wall defect, steam line break detection temperature switches would have notified the control room of the condition. This portion of the main steam line is isolatable and the reactor could be shut down safely.

This occurrence presented no adverse consequences from the standpoint of public health and safety.

Corrective Action:

In accordance with approved station procedures the defect was removed. The depth of the excavation did not exceed the minimal wall thickness of the pipe. Upon completion of the repair the area was reexamined in accordance with the Inservice Inspection Program and was found to be satisfactory.

Sincerely,

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L. C. Lessor
Station Superintendent
Cooper Nuclear Station

LCL:cg
Attach.