



Lewis

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
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AUG 26 1976

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THRU: *M.A.* A. R. Herdt, Chief, Engineering Support Section No. 1, Reactor Construction and Engineering Support Branch

INSERVICE INSPECTION CLASS 2 PIPING, CRYSTAL RIVER 3 - DOCKET 50-302

During the baseline inspection of the Class 2 piping at Crystal River 3, including main steam and auxiliary feedwater piping, many ultrasonic reflectors of an undetermined nature were exhibited. The details of the reflectors and associated analysis are contained in the following I&E inspection reports:

- 50-302/75-19
- 50-302/75-16
- 50-302/76-11
- 50-302/76-6
- 50-302/76-2

The reflectors appear to be geometrical in nature and the system has passed cold hydro. However, the reflections are coming from the root area of the welds, and the exact source has not been determined. Because of the latter two facts, it would be desirable to ultrasonically examine or radiograph three or more specific welds in the main steam and auxiliary feedwater lines after each complete cycle of a specified number of service cycles (suggest 3) as a means of assuring that no degradation occurs and to increase confidence in the baseline inspection test data. This would provide a chronological sequence of volumetric data related to specific welds and the affect of system service conditions on these welds.

It is recommended that a definite commitment be obtained from the licensee, either a requirement be placed on the licensee via the Technical Specification Surveillance requirements or by some other means. After the designated service cycles have occurred, and if the NDE data generated at the

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completion of each cycle does not indicate any degradation of the welds is occurring, then the licensee could be permitted to revert to the ASME Section XI inservice inspection program.

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