Warnick

TOLEDO EDISON

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April 12, 1976

Docket No. 50-346

Dr. Donald F. Knuth, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20055

Dear Dr. Knuth:

This letter is submitted in accordance with 10 CFR 50.55 as consummation of the Toledo Edison Interim Report, dated August 13, 1975, regarding the apparent deficiency related to Davis-Besse Nuclear Power Station Unit No. 1 reactor coolant pumps 1A1, 1A2, and 1B1.

Description of the Deficiency

Indications exceeding the manufacturer's acceptance standards utilizing ASME Section III 1968 Edition for Class A vessels were discovered during the baseline inspection in the casing welds of Byron Jackson-furnished reactor coolant pumps 1A1, 1A2, and 1B1. The specific indications noted were:

R. C. Pump Identification	Baseline Inspection Radiographic Review Comments
1A1	View E25-E26; Crack-type indication
1A2	View A28-B28, slag or non-fusion approximately 1¼" long.
1B1	View A2-A3, slag approximately 7" long

Corrective Action Taken

The indications were removed and the cavities examined by the liquid penetrant and radiographic methods to ensure defect removal. The cavities were then rewelded and the repaired areas reexamined by radiographic and liquid penetrant methods. The repaired areas were then radiographed by the Inservice Inspection Group to establish the baseline documentation. The pumps will be hydrostatically tested at the time of the reactor coolant system hydrostatic test.

Analysis of Deficiency

The reactor coolant pump casing welds were radiographed during original manufacture and certified to Byron Jackson by General Electric, Schenectady, to the acceptance standards of ASME Section III 1968 Edition for Class A vessels. Following the discovery in the baseline indications, the original GE radiographs were reviewed by both GE and Byron Jackson. Their review reconfirmed the acceptability of the original GE radiographs and the acceptability of the pump casings based on the code requirements at the time of manufacture. The original radiographs were made by GE, utilizing Type AA film.

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During the baseline inspection, the radiographs were made utilizing Types 47, 55, and 65 films which provided a higher contrast than the Type AA film. In addition, and as noted in IE Inspection Report No. 050-346/75-21, the GE penetrameter used for the original GE radiographs in some instances had partially masked the areas of concern on the original film. These conditions contributed to the indications not being discovered at the time of manufacture.

Safety Implications

Any possible adverse safety considerations have been resolved with the timely finding, evaluating, repairing, and accepting of the three pumps' casing weld joint areas. The baseline inspection program has provided additional confidence prior to placing the reactor coolant pumps into service.

Yours truly,

Lowell E. Roe
Vice President
Facilities Development

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