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Attachment to LER No. 78-010/01T-1

Wisconsin Electric Power Company
Point Beach Nuclear Plant, Unit 1
Docket No. 50-266

Event Description

Indication of a primary-to-secondary leak in the Unit 1 "A" steam generator was noted on May 24, 1978, and confirmed as being a leak of eight gallons per day.

The Leak increased gradually but steadily to 22 gallons per day at 1400 hours on May 25, 1978. Approximately at 1600 hours on May 25, 1978, the leak quadrupled at which time the decision was made to shutdown the unit and complete the steam generator repair in conjunction with a previously scheduled Memorial Day weekend maintenance outage.

Shutdown was commenced at 2245 hours on May 25, 1978, and the unit was taken off the line at 0555 hours on May 26, 1978.

The source of the leak was verified by a leak test of the "A" steam generator at 0100 hours on May 28, 1978. The leak test revealed one leaking tube at position R44C35 (mistakenly documented as R44C58) at or slightly above the level of the tube plate. The tube was explosively plugged at 1420 hours on May 28, 1978.

Following verification of the integrity of the plug by a second leak test, the unit was returned to the line at 1816 hours on May 30, 1978.

During the Unit 1 October, 1978, refueling eddy current inspection, the plugged leaking tube was found to be incorrectly identified by column. The proper identification should have been at position R44C35.

Cause Description

The cause of leakage of the Westinghouse 44 Series Inconel 600 steam generator tube has not been conclusively determined.