

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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NRC USE ONLY

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203-447-1791

ATTACHMENT

LER 79-17/3L-0
Millstone Unit 2
Docket Number 50-336

EVENT DESCRIPTION

While heating up the plant, the "B" auxiliary feedwater pump became inoperable due to a failure of the inboard pump bearing. The steam driven auxiliary feedwater pump and the remaining electrical pump were verified to be operable. The plant was then placed in hot shutdown within 34 hours in accordance with the Action Statement of Section 3.7.1.2 of the Technical Specifications. The pump bearings and shaft were replaced and the pump restored to service.

CAUSE DESCRIPTION

The cause of the failure of the inboard pump bearing on the "B" auxiliary feedwater pump was contamination of the bearing oil with water. The source of the water in the bearing oil is the leakoff from the pump packing. The water entered the bearing housing either down the shaft of the pump or through the fill port of the bearing oil reservoir due to excessive packing leakage. As a result of the failure of the inboard pump bearing the pump shaft was damaged. This necessitated the replacement of the pump shaft, Ingersoll Rand part number 28 HMTA 10X5, as well as the inboard and outboard pump bearings, part number 205-SKF-6212. To prevent further failures of the bearing due to water inleakage additional sealing was provided between the pump shaft and the packing slinger. Also the frequency of surveillance of the pump packing has been increased in order to maintain the packing gland leakoff at low levels. For the long term other methods of shaft sealing such as mechanical seals are being investigated in order to prevent water leakage from the pump into the bearing housings.