

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION II 101 MARIETTA ST., N.W., SUITE 3100 ATLANTA, GEORGIA 30303

SEP 1 3 1979

DERM

In Reply Refer To: RII:JPO 50-416 50-417

> Mississippi Power and Light Company Attn: N. L. Stampley Vice President of Production P. O. Bex 1640 Jackson, Mississippi 39205

Gentlemen:

The enclosed IE Circular No. 79-19, is forwarded to you for information.

No written response is required. Should you have any questions related to your understanding of this matter, please contact this office.

Sincerely,

James P. O'Reilly

Director

Enclosures:

1. IE Circular No. 79-19

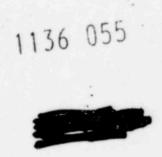
 List of IE Circulars Issued in the Last Six Months



Mississippi Power and Light Company

-2-

cc w/encl: C. K. McCoy Plant Manager Post Office Box 756 Port Gibson, Mississippi 39150



SSINS: 6830 Accession No: 7908220111

UNITED STATES NUCLEAR REGULATORY COMMISSION OFFICE OF INSPECTION AND ENFORCEMENT WASHINGTON, D. C. 20555

September 13, 1979

IE Circular No. 79-19

LOOSE LOCKING DEVICES ON INGERSOLL-RAND P'MP IMPELLERS

Description of Circumstances:

Three reports have been submitted to the NRC regarding the loosening of locking devices on the impellers of pumps manufactured by the Ingersoll-Rand Company.

The first report was submitted as a significant deficiency (10 CFR 50.55[e]) by Arkansas Power and Light Company in letters of March 17, 1970 and May 9, 1978. The licensee reported excessive noise and vibrations in both Low Pressure Safety Injection (LPSI) pumps during the preoperational test program on Unit 2 of Arkansas Nuclear One (ANO). It was discovered that the washers, jam nut and cap nut used to retain the impellers were missing on both pumps (Ingersoll-Rand Type 8X20WD). The licensee's corrective action involved the installation of a tab washer. This corrective ction was, also, taken on the containment spray pumps (Ingersoll-Rand Type 6x23WD) because of similarity of design.

The second report was submitted by Duke Power Company in a licensee event report (LER 50-287/78-23) dated January 24, 1979. The symptoms were similar to those observed at ANO Unit 2 in that high vibration was detected in a reactor building spray pump (Ingersoll-Rand Type 4X11A) for Oconee Unit No. 3. The licensee found that the impeller had worked loose. The corrective action included a revision to the maintenance procedure to specify torque requirements.

The third report was 10 CFR 21 Report No. 79-01 submitted by Portland General Electric Co. on April 16, 1979. This report identified a deficiency that may exist in the Trojan Nuclear Plant containment spray pumps (Ingersoll-Rand Type 6X23WD) in that there is a potential for the impeller lock nut to loosen. The potential deficiency was identified because of the similarity of the containment spray pumps design to the residual heat removal (RHR) pumps (Ingersoll-Rand Type 8X20WD) and the discovery of a loose lock nut on an RHR pump during pump maintenance. The corrective action was to provide a positive mechanical lock on the impeller nut.

Westinghouse Nuclear Service Division has issued a Technical Bulletin to Westinghouse plant owners on loose lock nuts on Ingersoll-Rand Types W, WD, and WDF pumps. Excerpts from that Technical Bulletin are in Enclosure No. 1 Combustion

Engineering, Inc. has, also, informed same problem in a letter dated March Enclosure No. 2.

1136 056

DUPLICATE DOCUMENT

Entire document previously entered into system under:

ANO 7908220111

No. of pages: