YES III yes, complete EXPECTED SUBMISSION DATE)

XX NO
ABSTRACT (Limit to 1400 spaces i.e. approximately lifesen single-space typewriten lines) (16)

J 101810

SUPPLEMENTAL REPORT EXPECTED (14)

RIGIRI

On May 17, 1984, while performing Diesel Fire Pump Surveillance Test ST 5016.01, operators heard excessive noise coming from the right angle drive gear assembly. Vibration readings indicated excessive vibration in the right angle gear assembly which houses the two drive shaft bearings. The Diesel Fire Pump was removed from service as a precautionary measure even though it was maintaining rated flow. After the right angle gear assembly was removed, an inspection revealed that the bearing rollers in the spherical roller bearing appeared to be sticking. As a precautionary measure, both drive shaft bearings were replaced and gear back lash set. Surveillance Test ST 5016.01 was run again and additional vibration readings taken. The Diesel Fire Pump was declared operable on May 31, 1984. This Special Report is being submitted pursuant to Technical Specification 6.9.2.

8406280199 840622 PDR ADDCK 05000346 PDR JE 1/1

SUBMISSION DATE (15) YEAR

IRC Form 366A U.S. NUCLEAR REGULATORY COMMISSION LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OMB NO 3150-0104 EXPIRES 8/31/85 FACILITY NAME (1) DOCKET NUMBER (2) LER NUMBER (6) PAGE (3) SEQUENTIAL Davis-Besse Unit 1 0 |5 | 0 | 0 | 0 | 3 | 4 | 6 | 8 | 4 | 0 0 7 010 0 12 TEXT III more space is required, use additional NRC Form 366A's) (17)

Description of Occurrence: On May 17, 1984 at 0545 hours with the plant in Mode 3, operators heard excessive noise coming from the right angle drive gear while performing Surveillance lest ST 5016.01. Vibration readings indicated excessive vibration in the right angle gear. The pump was declared inoperable, and the right angle drive gear assembly was disassembled. The Diesel Fire Pump, DFP, (KF), was declared inoperable to allow Maintenance to disassemble the gear assembly. The Station entered Action Statement (a) of Technical Specification 3.7.9.1.

This Special Report is being submitted pursuant to Technical Specification 6.9.2 when the DFP was not restored to operable status within seven days.

Designation of Apparent Cause of Occurrence: No actual component failures occurred. There was no bearing wear or damage apparent in either drive shaft. However, some of the rollers in the spherical roller bearing appeared to be sticking causing the excessive vibration.

Analysis of Occurrence: The DFP being inoperable was not detrimental to the health and safety of the public. The electric drive fire pump which takes a suction on the Fire Water Storage Tank was operable and aligned to the fire suppression system. If the electric drive fire pump or Fire Water Storage Tank became inoperable, a pumper from the Carroll Township Fire Department would have acted as the backup fire suppression system. The severity of this event is not affected by the power level of the station.

Corrective Action: On May 18, 1984, Maintenance Work Order (MWO) 1-84-1618-00 was issued for disassembly and inspection of the right angle gear drive. The right angle gear drive sub-assembly was removed and both bearings visually inspected. Some of the roller bearings in the spherical roller bearing appeared to be sticking. No wear or damage was apparent to the rollers in either drive shaft bearing. As a precautionary measure, both drive shaft bearings were replaced under MWO 1-84-1618-02. Also, the lubrication system was inspected and its proper operation verified. The right angle drive gear was reassembled and gear back lash set. Surveillance Test ST 5016.01 and vibration readings were performed, and the DFP declared operable at 1420 hours on May 31, 1984.

Since Surveillance Test ST 5016.01 is performed weekly, any loud or unusual noises will be detected by the operators. Vibration readings would then be taken to pinpoint the source of the noise.

Failure Data: There have been no previously reported similar events.

Report No: NP-33-84-07

DVR No(s): 84-065



June 22, 1984

Log No. K84-732 File: RR 2 (NP-33-84-07)

Docket No. 50-346 License No. NPF-3

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D. C. 20555

Gentlemen:

Special Report 84-007
Davis-Besse Nuclear Power Station Unit 1
Date of Occurrence: May 17, 1984

Enclosed is Special Report 84-007, which is being submitted pursuant to Technical Specification 6.9.2, to provide 30 day written notification of the subject occurrence.

Yours truly,

Temp mung

Terry D. Murray Station Superintendent Davis-Besse Nuclear Power Station

TDM/1jk

Enclosure

cc: Mr. James G. Keppler, Regional Administrator, USNRC Region III

> Mr. Walt Rogers DB-1 NRC Resident Inspector

JCS/001

IEZZ