U.S. AUCLEAR REGULATORY COMMISSION 1 UPDATE REPORT PREVIOUS REPORT DATE 10/7/82 LICENSEE EVENT REPORT CONTROL BLOCK: $\Box(0)$ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) 1 3 (2)10 B R F 4 N'T REPORT 1 9 6 0 0 9 0 9 0 5 10 0 10 SOURCE 8 1 2 3 DOCKET NUMBER EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10 During normal operation, periodic checks revealed that the generator/flywheel ball bearing on 480-volt reactor MOV board 3DN motor generator set was becoming noisy. The set was removed from service for repair (T.S. 3.9.B.11). There was no effect 4 on public health and safety. Redundant systems were available and operable. SYSTEM 80 CAUSE CAUSE CO119 VALVE COMPONENT CODE SUBCODE | Z | (31 EBI E 1(12) X (13) MIEICIFIUIN MA 210 (10) 1.0 SEQUENTIAL OCCURRENCE REPORT REVISION EVENT YEAR LERINO REPORT NO. CODE TYPE NO. REPORT 4 01 0 3 NUMBER X 11 28 23 ACTION FUTURE TAKEN ACTION SHUTDOWN METHOD EFFECT ON PLANT COMPONENT NPRD-4 PRIME COMP HOURS (22) SUBMITTED FORM SUB. SUPPLIER X (81 2 (21 Y (23 100 0 0 0 0 N (24) L 0 L| 2| 8| 0|(CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27) Suspected cause of deterioration of the bearing is lack of adequate lubricant film on bearing surfaces due to original lubricant in the bearing. The motor-generator set was manufactured by Louis Allis Company. The bearing was replaced. A lubricant 1 sample from the deteriorated bearing will be analyzed. A followup report will be 21 submitted when the analysis is completed. FACILITY 80 ME THOD OF * POWER (30) OTHER STATUS HICOVERY DISCOVERY DESCRIPTION (32 811 0 91 B (31) Preventative Maintenance Checks CONTENT 4.4 ACTIVITY 40 RU HELEA (ED_) + HELEASE AMOUNT OF ACTIVITY (35) LOCATION OF HELEASE (CS) NA NA TOTAL EXPERIMENT 44 45 80 101020-012-04 TNDE DESCRIPTION (10) 0 0 0 2 0 01 NA PERFECTATES 12 1.1 80 at menge (41) No. 1994 13 0 0 0 NA A BE CHARACTER ACTURES 80 (1) 1000 2 13 NA PUPENITY 8212020244 821123 PDR ADOCK 05000296 N at america (15) NHC USE ONLY PDR 1.8 16.2 NAME OF PROPADER James R. Aaron (205) 729-0857 Weinerster.

Tennessee Valley Authority Browns Ferry Nuclear Plant

Form BF 17 BF 15.2 2/12/82

LER SUPPLEMENTAL INFORMATION

BFRO-50-296 /82043 R1 Technical Specification Involved 3.9.B.11

Reported Under Technical Specification 6.7.2.b.(2) * Date Due NRC

Event Narrative:

Unit 1 was operating normally at 87-percent; unit 2 was shut down for a refueling outage. These units were not affected by this event. Unit 3 was operating normally at 98-percent power and was affected by this event. Periodic preventative maintenance checks indicated a possible deterioration of the 480-volt reactor MOV board 3DN motor generator set ball bearing located between the flywheel and the generator. The motor-generator set was shut down for inspection and replacement of the ball bearing and thus was made inoperable (T.S. 3.9.B.11). The suspected cause of failure was inadequate lubrication of the bearing caused by the grease initially used. The grease appears to have hardened and was not lubricating. A sample of the lubricant was collected and will be analyzed to determine if it was a suitable lubricant. A new ball bearing was installed lubricated with general purpose No. 1 grease, and the motor-generator set was returned to service. The motor-generator set was manufactured by Louis Allıs Company. The annular ball bearing was maufactured by Consolidated Bearing Company, #937800-01.

There was no effect on public health and safety. The redundant motor-generator set was available and operable. A followup report will be submitted when the lubricant analysis is completed.

* Previous Similar Events:

BFR0-50-296/81056

Retention: Period - Lifetime; Responsibility - Document Control Supervisor *Revision: 2 LER SUPPLEMENTAL INFORMATION 296/82043 R1

right.

Due to a communications problem, a grease sample was obtained and analyzed for a bearing other than the 3DN motor-generator set ball bearing located between the flywheel and the generator. The grease from the bearing on 3DN motor-generator set was inadvertently disposed of due to the communications problem and cannot be analyzed as previously reported.

The ball bearing from 3DN motor-generator set has been the first component removed due to deterioration from the 3DN motor-generator set since installation in January, 1981. After a thorough examination of the damaged bearing and a complete review of the operating history of the bearing, the suspected cause of failure was inadequate lubrication due to a hardening of the grease.