

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 Allis Company. The annular ball bearing was manufactured 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:

BFRO-50-296/81056

Retention: Period - Lifetime; Responsibility - Document Control Supervisor

*Revision: JRP

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296/82043 R1

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.