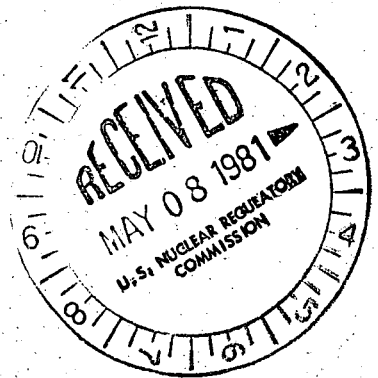


Iowa Electric Light and Power Company
May 5, 1981
DAEC-81-285



Mr. James G. Keppler, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission - Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Licensee Event Report No. 81-015
(14 day)

File: A-118a

Dear Mr. Keppler:

In accordance with Appendix A to Operating License DPR-49, Technical Specifications and Bases for Duane Arnold Energy Center and Regulatory Guide 10.1, please find attached a copy of the subject Licensee Event Report. (Total of 3 copies transmitted).

Very truly yours,

A handwritten signature in cursive script, appearing to read "D. Mineck".

Daniel L. Mineck
Chief Engineer
Duane Arnold Energy Center

Docket 50-331

attachment

DLM/DWT/pl

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cc: Director, Office of Inspection and Enforcement (40)
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Director, Management Information and Program Control (3)
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

U. S. Nuclear Regulatory Commission
c/o Document Management Branch
Washington, D. C. 20555

NRC Resident Inspector - DAEC

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DUANE ARNOLD ENERGY CENTER
Iowa Electric Light and Power Company
Licensee Event Report - Supplemental Data

Docket No. 050-0331

Licensee Event Report Date: May 5, 1981

Reportable Occurrence No: 81-015

Event Description

During the annual inspection of standby diesel generator 1G-21, the lower crankshaft main bearing #14 was found wiped on the journal surface. Redundant standby diesel generator 1G-31 annual inspection revealed similar problems (See RO Report 81-016). Although both diesel generators were operable at the time of the surveillance testing, extended operation, without corrective action, could have resulted in the bearing failure. Standby diesel generator operability requirements are listed in Technical Specification 3.8.A.2. There have been several similar RO Reports previously submitted (See RO Reports 77-32, 78-20, 80-11, and 80-12). This unit is a Fairbanks Morse Model 3800TD 8-1/8.

Cause Description

Vendor representative indicated that the diesel generator bearing had not failed and the bearing clearances were within specs. The wiped journal surface of the bearing was caused by high temperature rather than by a mechanical failure mechanism according to the vendor representative. It is suspected this is an indication that an insufficient lubrication problem exists. The vendor analysis continues and the results will be provided when available.

Corrective Action

The lower crankshaft main #14 bearing was replaced and the bearing-to-crankshaft clearance was verified to be in accordance with specifications. The crankshaft was relapped and the diesel generator was reassembled and tested satisfactorily.

Anticipating that the bearing may have been wiped due to insufficient lubrication, a test will be performed to determine the time from prelubricating pump start for the oil to reach the main crankshaft bearings and the standby diesel generator surveillance test procedures will be changed accordingly. The results this test will be provided along with the results of the vendor analysis.

Also the condition of the lower crankshaft #12, #13, and #14 bearings will be inspected four months after startup from the current refueling outage and after each standby diesel generator automatic start.