

ATTACHMENT TO LICENSEE EVENT REPORT 77-066/01T-0
COMMONWEALTH EDISON COMPANY (CWE)
DRESDEN UNIT 2 (ILDRS-2)
DOCKET # 050-237

While Unit 2 was shutdown for refueling and Unit 3 was at steady-state operation, operability surveillance was performed for the 2/3 diesel generator. It was started and loaded successfully at 0116. However, after 10 minutes, the computer indicated that the 2/3 diesel generator cooling water pump was off. The diesel generator was manually shut down. It was found that the cooling water pump breaker had tripped. The pump was restarted, but tripped again. An inspection of the pump revealed that the conduit leading to the pump was filled with a mixture of water and oil.

Following this failure, surveillance was performed for Units 2 and 3 diesel generators as required by Tech. Spec. (T.S.4.5.F.1). The surveillance on Unit 2 diesel was successful, yet Unit 3 diesel failed (Reportable Occurrence 77-054/01T-0). Since both Units 2/3 and 3 diesel generators were inoperable, an orderly shutdown of Unit 3 reactor was initiated. The Unit 3 diesel was repaired and tested operable at 0900 on the same day, and Unit 3 was ordered back to steady-state operation. During this period, off-site power was available, therefore this event is of little safety significance.

The 2/3 diesel cooling water pump was taken apart for inspection and a hole was found at the stator winding enclosure which is filled with oil. Water leaked into the enclosure and grounded the motor which caused the pump trip. This also accounted for the mixture of water and oil found in the conduit. The deterioration of the stator winding enclosure was apparently caused by abrasive action on the enclosure and bearing interface with the introduction of foreign matter in the bearing cooling water. The pump was subsequently replaced by a new pump and the diesel generator was put back in service after performing all required tests.

The replaced pump was manufactured by Chem-Pump Division of Crane Co. (Model Number GPS-75L-46H-3T). The new pump was of similar design also manufactured by the Crane Co. A "Y" strainer was installed in the bearing cooling water line to reduce foreign particles entering the bearing case. The strainer will be blown down every shift if the cooling water pump is running continuously, or before every startup of the pump for surveillance purposes. A modification will also be made to discontinue using these pumps to supply the HPCI/LPCI room coolers. This will extend the pump life significantly.

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REGULATORY DOCKET FILE COPY

December 13, 1977

BBS LTR #1156-77



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Directorate of Regulatory Operations - Region III
U.S. Nuclear Regulatory Commission
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Reportable Occurrence Report #77-066/01T-0, Docket #050-237 is hereby submitted to your office in accordance with Dresden Nuclear Power Station Technical Specification 6.6.B.1.(e), failure or malfunction of one or more components which prevents or could prevent, by itself, the fulfillment of the functional requirements of system(s) used to cope with accidents analyzed in the SAR.

B.B. Stephenson
Station Superintendent
Dresden Nuclear Power Station

BBS:dlz

Enclosure

cc: Director of Inspection & Enforcement
Director of Management Information & Program Control
File/NRC

DEC 15 1977

