



Commonwealth Edison
 Byron Nuclear Station
 4450 North German Church Road
 Byron, Illinois 61010

DMB

May 19, 1986

LTR: BYRON 86-0495
 FILE: 2.7.400

Mr. James G. Keppler
 Regional Administrator
 Region III
 U. S. Nuclear Regulatory Commission
 799 Roosevelt Road
 Glen Ellyn, Illinois 60137

Dear Sir:

This special report is submitted in accordance with Byron Station Unit 1 Operating License NPF-37 Appendix A, Technical Specification 4.8.1.1.3, reporting of Diesel Generator Failures.

This report addresses one valid test and failure experienced on the 1B Diesel Generator. The criteria to determine valid tests and failures is in accordance with Section C.2.e of Regulatory Guide 1.108.

On April 30, 1986 at 1018 following a Unit 2 System Auxiliary Transformer failure, the 1B Diesel Generator was started in accordance with Limiting Condition for Operation Action Requirement (LCOAR) 1BOS 8.1.1-1a for one offsite circuit inoperable. Per Technical Specification 4.8.1.1.2 the Diesel Generators are required to reach rated speed, voltage, and frequency within ten seconds of the start signal. The 1B Diesel Generator required 12.5 seconds to reach rated conditions. At 1021 the 1B Diesel Generator was shutdown and LCOAR 8.1.1-1a was initiated for one Offsite Circuit and one Emergency Diesel Generator inoperable. At 1028 the 1B Diesel Generator was restarted and reached rated conditions in 8.0 seconds. The Diesel was run continuously until 1150 when corrective actions were complete. At 1430 LCOAR 8.1.1-1a for one Offsite Circuit and one Diesel Generator inoperable was exited.


The intermediate cause for the slow start of the 1B Diesel Generator was an inadequate prime in the fuel oil supply line. The root cause was a small fuel oil leak at the union of the fuel oil supply line and the fuel oil filter. The union was tightened, and the leak was stopped.

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The 1B Diesel Generator was inoperable for four hours following this valid test and failure. This failure is the first failure within the last twenty valid tests, therefore the testing frequency of the 1B Diesel Generator is not affected.



R. E. Querio
Station Manager
Byron Nuclear Power Station

REQ/JC/bf

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