

ommonwealth Edison Company

FIRST NATIONAL PLAZA * CHICAGO, ILLINOIS

POST OFFICE BOX 767 * CHICAGO, ILLINOIS 60690

Dresden Nuclear Power Station

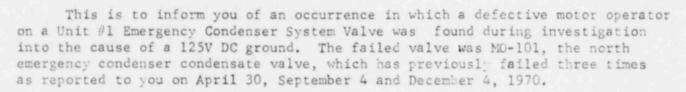
R. R. 1

Morris, Illinois 60450

May 13, 1971

Dr. Peter A. Morris, Director Division of Reactor Licensing U.S. Atomic Energy Commission Washington, D.C. 20545

Dear Dr. Morris:



During the pre-startup checks on the evening of April 13, 1971, the emergency condenser condensate return valves, MO-101 and MO-109, were closed. About one hour after they were closed a 125 V DC ground appeared and was ultimately traced to MO-101.

Inspection of the motor revealed that the insulation had flowed and the windings had low resistance to ground.

The motor was replaced and during testing the motor failed to de-energize when the valve closed. After waiting approximately 20 seconds the operator tripped the breaker manually. The torque switch was reset to a lower value and the value was operated satisfactorily with the torque-switch de-energizing the motor when the valve closed.

Investigation of the records showed that the torque switch setting had been increased in December, 1969, to reduce leakage through the valve. All failures of the valve have been experienced since that time. It is believed that the high torque setting prevented the motor from tripping as required, thus causing a continuous supply of current to the motor and subsequent overheating of the varnish and insulation on the motor windings.

