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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
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With Unit 3 at 91 percent power and during normal operation, an Operator received an alarm indicating high O_2 concentration in the torus. The concentration had reached four (4) percent. While inspecting the torus area for possible causes of the high torus O_2 concentration, it was determined that the problem was caused by the failure of the torus to reactor building vacuum breaker 3-1601-20B. The valve operator became disoriented from the valve body, causing the valve to open slightly. With the 3-1601-20B open and the torus being at a slight negative pressure with respect to the reactor building, air from the reactor building entered the torus causing the O_2 concentration to reach four (4) percent. Safety significance was minimal because primary containment integrity was maintained and the feeding and bleeding of N₂ to the torus commenced promptly. The previous occurrence of this type was documented in LER/RO #78-016-03L-0.

The failure was attributed to the shearing of the "flathead" mounting bolts which caused the valve oper tor to become disoriented from the valve body leaving the valve slightly open. The bolts became loose and were sheared when the valve was cycled. Further investigation proved that SAE Grade 8 bolts would better serve in preventing this problem from occurring in the future. Therefore, the "flathead" mounting bolts were replaced with "Allen" bolts. This change also allows a much greater torque to be applied during installation. Work Request numbers 38270 and 38271 request that these "Allen" bolts be installed on all H. Pratt valves during the next scheduled refueling outages.

The shearing of the mounting bolts during the valve cycling process also caused an air line to be damaged. This air line was repaired during the maintenance of the vacuum breaker. Testing of the repairs performed on 3-1601-20B during the maintenance process proved successful.

Form 3664



Commonwealth Edison Dresden Nuclear Power Station R.R. #1 Morris, Illinois 60450 Telephone 815/942-2920

September 6, 1984

DJS Ltr #84-880

U.S. Nuclear Regulstory Commission Document Control Desk Washington, D.C. 20555

Licensee Event Report #84-009-0, Docket #050249 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73 (a)(2)(i)(B).

D.J. Scott

Station Superintendent Dresden Nuclear Power Station

DJS/kjl

Enclosure

cc: J.G. Keppler, Regional Administrator, Region III
File/NRC
File/Numerical

