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Chicago, Illinois 60690

50-249

EBS Ltr.#776-74

Dresden Nuclear Power Station  
R. R. #1  
Morris, Illinois 60450  
October 24, 1974



Mr. James G. Keppler, Regional Director  
Directorate of Regulatory Operations-Region III  
U. S. Atomic Energy Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

SUBJECT: LICENSE DPR-25, DRESDEN NUCLEAR POWER STATION, UNIT #3.  
SUPPLEMENTARY INFORMATION TO REPORT OF UNUSUAL EVENT PER SECTION  
6.6.B.2 OF THE TECHNICAL SPECIFICATIONS.  
PRIMARY CONTAINMENT ISOLATION VALVE LEAKAGE.

- References: 1) Letter from Mr. W. P. Worden to Dr. P. A. Morris dated  
May 18, 1972.
- 2) Letter from Mr. W. P. Worden to Mr. J. P. O'Leary dated  
December 19, 1973.
- 3) Drawing P&ID M-356

Dear Mr. Keppler:

In the letter sent to you from Mr. W. P. Worden dated December 19, 1973, concerning primary containment isolation valve leakage, it was stated that leakage through the rubber seated butterfly valves had been a recurring problem. At that time, it was not known whether the leakage was associated with the rubber seats or another problem.

Since that time the manufacturer of the valves, the Henry Pratt Co., was asked to investigate this problem. They concluded that the cause of the leakage was due to improper assembling of the valve operator. They had checked the valves with the operators off and found them to be bubble-tight, and leakage did not occur until after the operators were assembled to the valves and installed in line.

The valves had been sent to the manufacturer to be rerubbered with an Ethylene-Propylene Terpolymer rubber, a high temperature radiation resistance rubber seat material after the original seats failed because of heat deterioration. However, the operators remained at the station. According to the company, when the operators were reassembled at the station, clearances existed between the operator plate bearings and the shaft lever, and some set screws in the operator lever that lock it against the valve shaft were missing. These components help to position the valve disc. Therefore, the clearances between the operator plate bearings and the loading caused by the assembly of the operator to the valve allowed the disc to move along the axial center line of the valve shaft. This movement resulted in leakage at the hub area.

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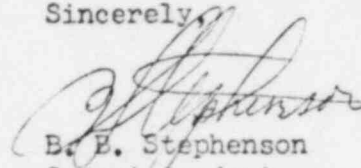
Mr. James G. Keppler

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October 24, 1974

The Henry Pratt Co. has sent the station drawings on the assembly of the valve and operator, and these drawings have been submitted to the maintenance department.

Sincerely,



B. E. Stephenson  
Superintendent

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