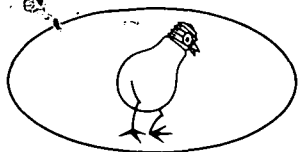


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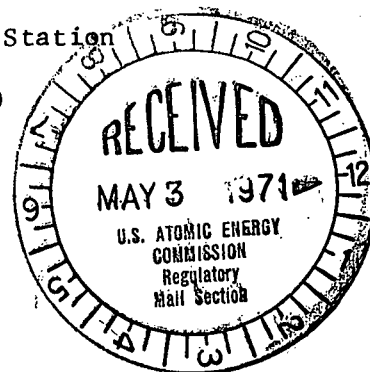
# Commonwealth Edison Company

ONE FIRST NATIONAL PLAZA ★ CHICAGO, ILLINOIS

Address Reply to:

POST OFFICE BOX 767 ★ CHICAGO, ILLINOIS 60690

Dresden Nuclear Power Station  
R.R. #1  
Morris, Illinois 60450  
April 29, 1971



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

SUBJECT: LICENSE DPR-19, DRESDEN NUCLEAR POWER STATION UNIT #2, SECTION 6.6.C.1 OF THE TECHNICAL SPECIFICATIONS

REFERENCE: Transmittal to Dr. Peter A. Morris from Byron Lee, Jr. Subject: Additional information concerning the operation of Dresden Unit #2, including Special Report No. 13, Core Spray Water Hammer Incident, April 21, 1971.

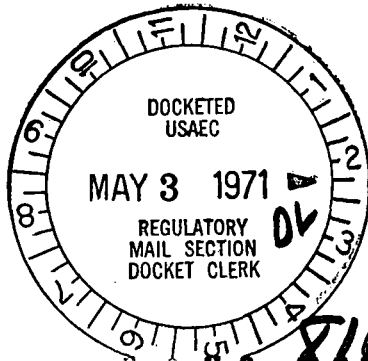
Dear Dr. Morris:

This is to report a condition relating to the operation of the station in which, during a routine inspection, seismic restraints on the core spray subsystem were found to be damaged.

Problem Investigation, and Corrective Action

The unit has been shutdown for refueling and the core spray subsystem had been out of service for testability modifications to the logic circuitry. Upon completion of testing of the modifications, the core spray subsystem surveillance test was performed at 3:30 A.M. on March 29, 1971, to demonstrate operability. At 11:00 A.M., during a routine operator inspection, seismic restraints on the 2A core spray subsystem line (line 1403), exterior to the drywell, were found damaged.

Further investigation revealed that three seismic restraints and one hanger on the 2A core spray subsystem line had been damaged. The 2C core spray subsystem line (line 1404), was also inspected and three seismic restraints and two hangers were found damaged. Visual inspection of the piping involved revealed no piping damage, although line 1404 appeared to be "sprung" one to two inches from its original position. Inspection of similar piping on Unit #3 revealed no damage. Details of damage, stress analyses of the piping and repairs are included in reference 1.



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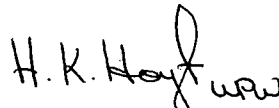
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April 29, 1971

Subsequent evaluation indicated that the damage was the result of a "water hammer". The core spray subsystem was idle for an extended period of time and leakage of water through the core spray pump discharge stop check valve drained the core spray line. Subsequent operation of the pump resulted in acceleration of a "water slug" in the line causing a "water hammer."

To prevent recurrence of the "water hammer", a "jockey" pump is being installed which will take suction from the torus, and discharge to the core spray and low pressure coolant injection lines to keep the lines filled. A similar system will be installed on Unit #3.

Sincerely,

  
H.K. Hoyt  
Superintendent

HKH:glt