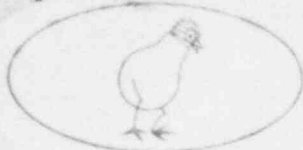


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Commonwealth Edison Company

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

January 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

Dear Dr. Morris:

This is to report a condition relating to the operation of the station wherein, during quarterly surveillance testing of the High Pressure Coolant Injection System (HPCI) on 12/31/70, the indicated HPCI pump flow was less than the value specified in Section 4.5.C.1 of the Technical Specifications and there was a failure to declare the system inoperable.

On January 19, 1971, at 9:23 p.m., quarterly surveillance testing was conducted on the HPCI system. Results of the test indicated the HPCI pump flow to be less than the 5000 gpm specified in section 4.5.C.1 of the Technical Specifications. Accordingly the HPCI system was declared inoperable and surveillance on those systems required to be operable by Section 3.5.C.2 was begun. Additionally, Instrument Mechanics were called in to determine the cause of the low flow indication. Testing on all systems required to be operable by Section 3.5.C.2 was complete by 6:10 a.m. on January 20, 1971.

Calibration checks performed by the Instrument Mechanics determined that due to a calibration shift in a square root converter in the flow indication circuitry, the indicated flow was 450 gpm less than the actual HPCI pump flow.

Following recalibration of the square root converter, HPCI flow surveillance was conducted on January 20, 1971, at 11:30 a.m. and flow in excess of 5000 gpm was demonstrated. The HPCI system was then declared to be operable.

By applying the 450 gpm calibration correction to the results of the January 19th surveillance test, one can conclude that the HPCI system was also pumping in excess of 5000 gpm on that date and that in fact the requirements of section 4.5.C.1 had been met.

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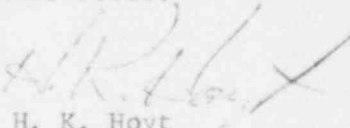
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January 29, 1971

During a subsequent audit of another HPCI surveillance test conducted December 31, 1970, it was discovered that the flow recorded on the surveillance data sheet for this test was less than that required by Section 4.5.C.1. The HPCI system, however, was not declared inoperable following the December 31st test. It is our belief that the square root converter calibration error mentioned earlier was also influencing the flow indication during the December 31st test and that actual HPCI system flow on that date was in excess of Section 4.5.C.1.

In view of the failure to declare HPCI inoperable, immediately following the indicated low flow on December 31, 1970, the following corrective measures are being instituted:

1. HPCI Surveillance data sheets will be revised to include the actual Technical Specification Limits, where applicable, adjacent to the data collected during the test, for comparison purposes.
2. An effort will be made to schedule instrument calibration checks prior to certain surveillance tests, to maximize the confidence in data collected during the surveillance tests.


H. K. Hoyt
Superintendent

HKH:dmc