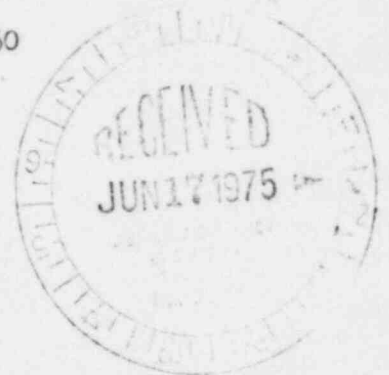




Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

EBS Ltr. #368-75

Dresden Nuclear Power Station
R. R. #1
Morris, Illinois 60450
June 13, 1975



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

SUBJECT: REPORT OF ABNORMAL OCCURRENCE PER SECTION 6.6.A OF THE TECHNICAL SPECIFICATIONS
SBLC RELIEF VALVE SETPOINTS LESS THAN TECH SPEC LIMITS

- SUBJECT: 1) Regulatory Guide 1.16 Rev. 1 Appendix A
- 2) Notification of Region III of U. S. Nuclear Regulatory Commission
Telephone: P. Johnson, 1500 hours on June 5, 1975
Telegram: J. Keppler, 1545 hours on June 5, 1975
- 3) Drawing Number M-364
- 4) Letter from H. K. Hoyt to Dr. Peter A. Morris; Report No. 50-237/1970-48

Report Number: 50-249/1975-30

Report Date: June 13, 1975

Occurrence Date: June 5, 1975

Facility: Dresden Nuclear Power Station, Morris, Illinois

IDENTIFICATION OF OCCURRENCE

The Standby Liquid Control (SBLC) pump discharge relief valves were found at setpoints lower than the Technical Specification limits.

CONDITIONS PRIOR TO OCCURRENCE

Unit-3 was in the shutdown mode for a refueling outage.

DESCRIPTION OF OCCURRENCE

On May 24, 1975 a test was performed, in the maintenance shop, on relief valve 1105-A to determine the relief valve setting. The valve was found to be set at 1250 psi.

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The same test was performed on relief valve 1105B on May 28, 1975. At 1320 psi the valve began to leak.

These events were reported at 1400 hours on June 5, 1975. Failure to report the incident immediately was a result of a procedural inadequacy which specified that no action be taken.

DESCRIPTION OF APPARENT CAUSE OF OCCURRENCE (Equipment Failure)

Relief valve 1105A performed properly in the test except that the setpoint was low. This incident is attributed to setpoint drift.

Relief valve 1105 B began to leak at 1320 psi, below the required setting. Disassembly of the valve revealed crystals of sodium pentaborate on the valve seat. These crystals prevented the valve from seating properly and lowered its relief setpoint.

ANALYSIS OF OCCURRENCE

Both SBLC pumps are 100% capacity pumps. When required, the reactor operator will select one of the systems. Therefore, the operability of the system is limited to 1250 psi. The system is intended as a backup system for the control rod drive system, with the reactor in the cold condition, in the event that all rods fail to insert after a reactor trip.

The SBLC system will not be required to operate with reactor pressure greater than 1250 psi as there are no expected reactor transients which result in a reactor pressure greater than 1250 psi in the period of time which can affect the operation of the SBLC system. Therefore, the health and safety of the public were not compromised by this occurrence.

CORRECTIVE ACTION

Valve 1150-B, which started leaking at 1320 psi was cleaned and lapped to remove the crystals around the valve seat. It was then reset to 1448 psi and reinstalled on May 30, 1975.

Valve 1105-A was cleaned and reset. This event is considered to be an isolated case and does not appear to be an inherent problem in the design of the valve. No further action was deemed necessary.

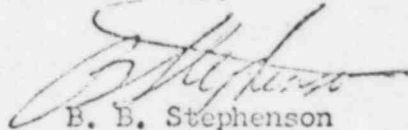
The procedure for testing the SBLC injection lines was revised prior to the most recent valve test. The valves are now tested with nitrogen in the maintenance shop. This will minimize the possibility of sodium pentaborate crystals forming on the valve seat. In addition, the relief valve testing procedure will be revised by July, 1975 to ensure that any deviation from Tech Specs limits is reported to the shift engineer within 24 hours of the occurrence.

June 13, 1975

FAILURE DATA

A review of station records indicates that sodium pentaborate deposits on the valve seat has occurred once before (reported August 25, 1970). Setpoint drift as found on valve 1105-A has never occurred before.

Sincerely,



E. B. Stephenson
Superintendent

BBS:DB:smp

File/NRC