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US NUCLEAR BLOULATORY COMMISSION

#### LICENSEL EVENT REPORT (LEE

ACILITY TITLE (A) EVEN	il.	Ile County Station Uni ure of High Pressure C LER NUMBER 18 YEAR STOLENTIAL REVEOT						t 1 ore Spray Waterleg REFERT DATE (7) MONTH DAY YEAF			leg Pu	O 15 0 0 O 15 0 0 0 O 10 0 0 O			101317 13 1 OF 013				
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On July 2, 1984 during the performance of LOS-HP-Q1, the High Pressure Core Spray System (HPCS) Quarterly Inservice Test Check Valve 1E22-F006 and Stop Check Valve 1E22-F007 failed to prevent reverse flow. These check valves provide isolation of the HPCS Waterleg Pump 1E22-C003 from the discharge pressure of the HPCS Pump 1E22-C001. The HPCS System was subsequently taken out of service to repair the check valves. After two attempts at correcting the problem the applicable portions of surveillance LOS-HP-Q1 were performed at 2100 on July 4, 1984 with satisfactory results. The cause for the check valves failing appears to be due to scoring of the disc seats. The valves were lapped and this corrected the problem. The occurrence was not significant as Division I and Division II Emergency Core Cooling Systems were available the entire time.

There have been no previous occurrences to date. This appears to be an isolated case. The valves are made by Anderson, Greenwood Co.

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FACILITY NAME IN	DOCKET NUMBER (1	Contractor Sector Secto	constantia
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LaSalle County Station Unit 1	0 15 0 0 0 3 7 3	8 4 - 0 4 4 - 010 0	0 13

## I. EVENT DESCRIPTION

At 0830 on July 2, 1984 during the performance of surveillance LOS-HP-Q1, the High Pressure Core Spray System (BG, HPCS) Quarterly Inservice Test, Check Valves 1E22-F007 and 1E22-F006 failed to prevent reverse flow from the HPCS Pump 1E22-C001. This failure by the check valves resulted in HPCS pump pressure being felt on the HPCS Waterleg Pump. The surveillance criteria of ASME Section XI was exceeded in this case. The HPCS Waterleg Pump (1E22-C003) discharge check valves were subsequently entered in the Degraded Equipment Log at 1005 on July 2, 1984.

# II. CAUSE

The cause for the failure of Check Valve 1E22-F006 and Stop Check Valve 1E22-F007 is due to scoring of the check valve seating surfaces. This scoring was most likely caused by small particles or foreign matter entering the system briefly and lodging between the seat and disc surfaces of the check valves. It is highly unlikely that both valves fulled at the same time; it is more probable that one valve failed earlier placing the burden on the remaining check valve. This check valve eventually failed which resulted in the HPCS pump pressure being felt on the HPCS Waterleg Pump.

There have been no previous occurrences to date. This appears to be an isolated case.

#### III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

At the time of the occurrence the plant was at 97% power. The HPCS system would have performed its intended function if called upon prior to its being taken out of service for repair maintenance. During the entire time, the Division I and Division II Emergency Core Coalina Systems (ECCS) were fully operational, ready to respond to a costan challenge.

This occurrence had no significant effect on safe plant operation.

## IV. CORRECTIVE ACTION

Work Request (L38481) was written to investigate and repair Check Valve 1E22-F006 and Stop Check Valve 1E22-F007.

The High Pressure Core Spray System was taken out of service at 2030 on July 2, 1984. Check Valve 1E22-F006 was inspected, cleaned, re-installed and returned to service at 0530 on July 3, 1984. A refert of the rheck valves failed.

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# IV. CORRECTIVE ACTION (CONTINUED)

At 1550 on July 3, 1984 the HPCS System was once again taken out of service. Maintenance consisted of lapping the disc seats of Check Valve IE22-F006 and Stop Check Valve IE22-F007. Those applicable portions of surveillance LOS-HP-Q1 were again performed at 2100 on July 4, 1984. The results were satisfactory.

Work Request (L38481) was completed on July 4, 1984 and the HPCS System returned to full operation at 0545 on July 5, 1984.

The valves are made by the Anderson, Greenwood Co.

#### PREVIOUS OCCURRENCES

None

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## VI. NAME AND TELEPHONE NUMBER OF PREPARER

Vincent Masterson, E.A., 815-357-6761, ext. 499.



**Commonwealth Edison** LaSalle County Nuclear Station Rural Route #1, Box 220 Marseilles, Illinois 61341 Telephone 815/357-6761

July 27, 1984

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

Dear Sir:

Reportable Occurrence Report #84-044-00, Docket #050-373 is being submitted to your office in accordance with 10 CFR 50.73.

Nuderich

G. (J. Diederich Superintendent LaSalle County Station

GJD/MLD/kg

Enclosure

xc: NRC, Regional Director INPO-Records Center File/NRC

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