

REGION III MORNING REPORT
1993

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OCTOBER 12,

Licensee/Facility:

Illinois Power Co.
Clinton 1
Clinton, Illinois

Notification:

MR Number: 3-93-0307
Date: 10/12/93
SRI BY LAN

Dockets: 50-461
BWR/GE-6

Subject: POTENTIALLY INOPERABLE HIGH PRESSURE CORE SPRAY (HPCS) INJECTION
VALVE

Reportable Event Number: 26185

Discussion:

As part of its GL 89-10 program, the licensee was modifying the HPCS injection/containment isolation valve (1E22-F004) and discovered the following problems. The key for the motor pinion gear had sheared and the gear had rotated on the shaft. The inspectors observed the key and its appearance indicated a brittle failure had occurred. Material history indicated the valve was overtorqued during MOVATS testing in 1986 and indicated the pinion gear had not been inspected since then. The valve guide rib tolerances were also incorrect and will require machining. The valve was stroked opened on 10/6/93, to support this maintenance. The pinon gear was found seized to the shaft. However, the potential exists that the gear would rotate on the shaft if the valve attempted to open against design differential pressure. If the gear rotated on the motor shaft, the valve would fail. This condition could have existed since the problem in 1986. The licensee has begun an investigation which will

include metallurgical examination of the gear and key. The licensee does not have the capability to machine the guide ribs and is attempting to determine if any contractors can do it in place. Additionally, during discussion with licensee MOV personnel before this event, they indicated that this valve was only scheduled for static testing after the modification. Management had made a decision not to perform dynamic testing. This position has not changed.

Regional Action:

The resident inspectors are following the licensee's investigation and evaluating any enforcement issues.

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