

Nebraska Public Power District

COOPER NUCLEAR STATION
P.O. BOX 98, BROWNVILLE, NEBRASKA 68321
TELEPHONE (402) 825-3811

CNSS790014

January 5, 1979

Mr. K. V. Seyfrit
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region IV
611 Ryan Plaza
Suite 1000
Arlington, Texas 76011

Dear Sir:

This report is submitted in accordance with Section 6.7.2.B.2 of the Technical Specifications for Cooper Nuclear Station and discusses a reportable occurrence that was discovered on December 6, 1978. A licensee event report form is also enclosed.

Report No.: 50-298-78-39
Report Date: January 5, 1979
Occurrence Date: December 6, 1978
Facility: Cooper Nuclear Station
Brownville, Nebraska 68321

Identification of Occurrence:

A condition which resulted in operation in a degraded mode permitted by a limiting condition for operation as delineated in Section 3.9.B.3 of the Technical Specifications.

Conditions Prior to Occurrence:

Steady state power operation at approximately 98% reactor power.

Description of Occurrence:

During performance of Surveillance Procedure 6.3.12.1 prior to returning the number one diesel generator to service after maintenance, the diesel engine failed to reach full speed.

Designation of Apparent Cause of Occurrence:

Due to an accumulation of dirt and rust particles, a four way solenoid valve plunger stuck in mid position exhausting air from the exhaust port thus reducing the 80 psig control air pressure. This reduction in control air pressure caused the air operated engine inlet air shutdown dampers to remain almost closed restricting the engine air intake, causing the engine to run at reduced speed.

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Analysis of Occurrence:

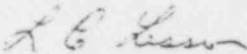
The diesel generator had previously been removed from service for inspection of engine cam rollers. Prior to this maintenance the redundant diesel generator and ECCS components were tested and proven operable. The four way solenoid valve had operated properly for four years prior to this occurrence. This occurrence presented no adverse consequences from the standpoint of public health and safety.

Corrective Action:

The four way solenoid valve was disassembled and cleaned. Correct operation of the four way valve was verified.

The similar solenoid valve on diesel engine number two was also inspected and cleaned. The annual inspection, Procedure 6.3.12.6, has been revised to include checking this four way solenoid valve.

Sincerely,



L. C. Lessor
Station Superintendent
Cooper Nuclear Station

LCL:cg
Attach.