



Nebraska Public Power District

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

MS800499

August 18, 1980

Mr. K. V. Seyfrit, Director  
U.S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Room IV  
6701 Ryan Plaza Drive  
Suite 1000  
Arlington, Texas 76011

Dear Sir:

This report is submitted in accordance with Section 6.7.2.A.7 of the Technical Specifications for Cooper Nuclear Station and discusses a reportable occurrence that was discovered on August 4, 1980. A licensee event report form is also enclosed.

Report No.: 50-298-80-31  
Report Date: August 18, 1980  
Occurrence Date: August 4, 1980  
Facility: Cooper Nuclear Station  
Brownville, Nebraska 68321

Identification of Occurrence:

Conditions arising from a natural phenomenon that, as a direct result of the event, caused the reactor to shutdown.

Conditions Prior to Occurrence:

Steady state power operation at 86% of rated thermal power.

Description of Occurrence:

During normal operation, a severe weather storm caused a line fault on the 345 KV distribution system which initiated a voltage transient that induced erroneous signals into the turbine control digital electric hydraulic (DEH) System computer. These erroneous signals caused the DEH System to indirectly initiate a reactor shutdown.

Designation of Apparent Cause of Occurrence:

The 345 KV distribution system line fault induced voltage transients into the plant's electrical system.

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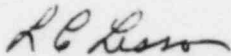
Analysis of Occurrence:

It is believed that the 345 KV distribution system line fault induced voltage transients which were sensed by the DEH System. This resulted in a chain of events that caused the main turbine bypass valves to open. The governor valves did not control reactor pressure and a Group I isolation due to low pressure closed the MSIV's resulting in a reactor scram. All systems that scram the reactor functioned as designed. There were no significant occurrences as a result of this scram and there were no adverse affects to the public health and safety.

Corrective Action:

No corrective action is planned at this time, but evaluation of the electrical circuitry to prevent transients from affecting the plant's operation is being studied.

Sincerely,



L. C. Lessor  
Station Superintendent  
Cooper Nuclear Station

LCL:cg  
Attach.