

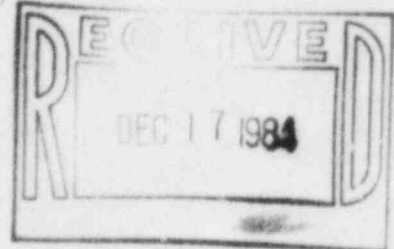


KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER  
VICE PRESIDENT - NUCLEAR

December 7, 1984

Mr. R.P. Denise, Director  
Wolf Creek Task Force  
U.S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011



KMLNRC 84-220  
Re: Docket No. STN 50-482  
Ref: Interim Report KMLNRC 84-061 dated 4/11/84  
from GLKoester, KG&E, to EHJohnson, NRC  
Subj: Final 10CFR50.55(e) Report - Containment  
Cooling Fan Mechanical Interlocks (53564-K128)

Dear Mr. Denise:

This letter provides the final report submitted pursuant to 10CFR50.55(e) concerning ITE-Gould Motor Control Center Two-Speed Starters for the Containment Cooling Fan Motors. This matter was reported by Messrs. O. Maynard and H. Chernoff of Kansas Gas and Electric Company (KG&E) to Mr. W. Johnson of the Nuclear Regulatory Commission, Region IV, on March 16, 1984, with supplemental information provided in the Reference.

The mechanical interlocks in the two-speed starters have periodically failed to operate properly. "Sticking" between contactors 42T and 42S in all four Fan Motor Starters could prevent the fans from transferring from high speed to low speed. The manufacturer initially determined that the interlock problem was a result of coil failures in the starter assemblies.

The coil failures were thought to be caused by a lack of maintenance. The interlock mechanism on starters NG01TAF1 and NG03TAF1 were removed and thoroughly cleaned using water and compressed air. The interlocks were then reinstalled and appeared to function normally. Subsequently, however, the interlock in NG03TAF1 prevented the 42S coil from closing properly.

The subject mechanical interlock assemblies were inspected by the manufacturers' representative. Based on this inspection, all of the interlock assemblies were replaced with new assemblies of the same type and catalog number. During testing of the newly installed mechanical interlock assemblies binding was determined to be a continuing problem.

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Mr. R.P. Denise  
KMLNRC 84-220

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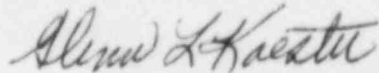
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After further investigation, it was found that the actuator extension of the size 5 starter was exerting slight pressure on the interlock assembly of the de-energized starter coil. This pressure could cause the interlock assembly to bind and not allow for automatic transfer of the cooling fan from high speed to low speed.

To alleviate this pressure, the portion of the actuator extension which contacts the interlock assembly was shortened by approximately one-eighth inch on all size 5 starters. Instruction Manual 10466-E-018-0190 will be revised, within 90 days after fuel load, to change the installation instructions of the size 5 mechanical interlock assembly to reflect this modification.

If you have any questions concerning this subject, please contact me or Mr. Otto Maynard of my staff.

Yours very truly,



Glenn L. Koester  
Vice President - Nuclear

GLK:bb  
xc:RCDeYoung  
PO'Connor (2)  
HBundy