

LP On



KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER  
VICE PRESIDENT - NUCLEAR

March 18, 1981

Mr. G.L. Madsen, Chief  
Reactor Projects Branch  
U.S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive  
Suite 1000  
Arlington, Texas 76011



KMLNRC 81-064  
Re: Docket No. STN 50-482

Dear Mr. Madsen:

On February 17, 1981, Kansas Gas and Electric Company received notification from the Fisher Controls Company of a potential 10CFR21 deficiency concerning valve actuators for valves shipped to Wolf Creek. This information was reported for KG&E as a potential 10CFR50.55(e) to Mr. Crossman of Region IV on February 18, 1981. It was subsequently determined that the deficiency was reportable in accordance with 10CFR50.55(e), and a final report on the deficiency is attached.

Please advise if you need additional information.

Yours very truly,

*Glenn L. Koester*

GLK:bb  
Attach

cc: TVandel (NRC Site Inspector)

8104210331

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FINAL  
10CFR50.55(e)  
REPORT

ON

POTENTIAL FAILURE OF  
VALVE ACTUATORS FURNISHED BY  
FISHER CONTROLS COMPANY  
TO  
KANSAS GAS AND ELECTRIC COMPANY

March 18, 1981

Wichita, Kansas

10CFR50.55(e) Report  
Fisher Controls

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## 1.0 INTRODUCTION

In accordance with the requirements of 10CFR50.55(e), this final report is prepared to provide a description of a deficiency related to the potential improper operation of valves which could have affected the safe shutdown capability of Wolf Creek Generating Station, Unit No 1.

On February 17, 1981 KG&E received notification from the Fisher Controls Company of a potential 10CFR21 deficiency concerning valve actuators for two valves shipped to the Wolf Creek site. This information was reported for KG&E as a potential 10CFR50.55(e) to Mr Crossman of the Region IV office on February 18. Our Architect/Engineer subsequently determined that the deficiency would impact the capability to achieve safe shutdown conditions for the Wolf Creek plant. Fisher on February 25, 1981 reported the deficiency to the Region IV office as a 10CFR21 defect.

## 2.0 DESCRIPTION OF REPORTABLE DEFICIENCY

Fisher Controls Size 2, Type 1073 and 1074 manual actuators are utilized on SNUPPS valve tag numbers EJ-V-033 and EJ-V-038. Fisher reports that life cycle test for these type valves indicated a potential failure of the worm gear sector of the actuators. Failure of this part would result in the valve disc becoming uncoupled from the actuator and the valve would tend to close.

## 3.0 ANALYSIS OF SAFETY IMPLICATIONS

Each affected valve controls component cooling water flow to a Residual Heat Removal (RHR) heat exchanger in a SNUPPS plant. The failure of a valve as identified by Fisher could result in the loss of component cooling water flow to a RHR heat exchanger. Operation of the RHR heat exchangers is a safety-related function and loss of these heat exchangers would impact the capability to achieve safe shutdown.

## 4.0 CORRECTIVE ACTION

Fisher has determined that a modified worm gear sector and mounting pin will enable the valve actuators to function as designed.

One of the valves shipped to Wolf Creek is installed and the other is in storage. NCR 1SN2969MR has been issued to track this deficiency. The NCR will be dispositioned upon receipt from Fisher of the modified components and completion of the modification to the two valves.