



KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER
VICE PRESIDENT - NUCLEAR

June 6, 1985

Mr. Harold Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

KMLNRC 85-150
Re: Docket No. STN 50-482
Subj: Wolf Creek License Condition
2.C. (13)-Generic Letter 83-28

Dear Mr. Denton:

The attachment contains specific information regarding the periodic maintenance program and trending for the reactor trip breakers. This is being submitted pursuant to Wolf Creek License Condition 2.C. (13) concerning Generic Letter 83-28.

If you have any questions please contact myself or Mr. Otto Maynard of my staff.

Yours very truly,

Glenn L. Koester
Vice President, Nuclear

GLK:kc

Attach

xc: PO'Connor (2), w/a
JCummins, w/a

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OATH OF AFFIRMATION

STATE OF KANSAS)
) SS:
COUNTY OF SEDGWICK)

I, Glenn L. Koester, of lawful age, being duly sworn upon oath, do depose, state and affirm that I am Vice President - Nuclear of Kansas Gas and Electric Company, Wichita, Kansas, that I have signed the foregoing letter of transmittal, know the contents thereof, and that all statements contained therein are true.

KANSAS GAS AND ELECTRIC COMPANY

ATTEST:

E.D. Prothro

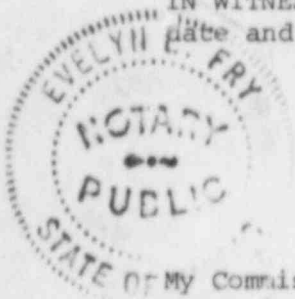
E.D. Prothro, Assistant Secretary

By *Glenn L. Koester*
Glenn L. Koester
Vice President - Nuclear

STATE OF KANSAS)
) SS:
COUNTY OF SEDGWICK)

BE IT REMEMBERED that on this 6 day of June, before me, Evelyn L. Fry, a Notary, personally appeared Glenn L. Koester, Vice President - Nuclear of Kansas Gas and Electric Company, Wichita, Kansas, who is personally known to me and who executed the foregoing instrument, and he duly acknowledged the execution of the same for and on behalf of and as the act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the date and year above written.



Evelyn L. Fry
Evelyn L. Fry, Notary

Reactor Trip Breakers Maintenance Program

As a result of Generic Letter 83-28, Westinghouse recommended modifications on the Reactor Trip Switchgear which increases system reliability were installed at Wolf Creek Generating Station (WCGS) in September, 1984. Preventative maintenance and surveillance programs utilizing guidelines outlined in Westinghouse Maintenance Manual for the DS-416 Reactor Trip Circuit Breaker have been established to assure reliable reactor trip breaker operation.

The periodic maintenance program for the reactor trip breakers has been divided into two groups. Group A activities, performed at six month intervals, relate to the breaker proper and can be accomplished with power to the switchgear uninterrupted. The six month frequency will be extended to 18 months per Westinghouse recommendations if experience warrants after several inspection periods. Group B activities, performed at each refueling, include those activities which involve the switchgear enclosure and require interruption of power. The Managed Maintenance Program at WCGS will assure the inspection schedule is maintained.

Group A Activities

1. A general inspection is performed on the breakers which include:
 - 1) Retaining rings secure on Undervoltage Trip Attachment (UVTA) and Shunt Trip Attachment (STA).
 - 2) Nuts, bolts, screws, and pins are checked for tightness. These include spring release mounting bolt, coil retaining screw and guide screws, and set screws on end of crank shaft.
 - 3) Overall physical condition, i.e. cleanliness, cracks of pole bases.
 - 4) The arc chutes are inspected for cleanliness, cracks, and erosion.
 - 5) The locknut on the insulating link is inspected for cleanliness, cracks and tightness.
 - 6) Insulation and terminations are inspected and auxiliary switches are verified operational.

Corrective actions are taken, if necessary.

2. The arcing and main contacts are inspected as specified by the Westinghouse Maintenance Manual. The contacts are replaced or adjusted as necessary.

3. The UVTA is inspected and dropout voltage is measured as specified in the Westinghouse Maintenance Manual. If the dropout voltage is greater than 60% or less than 30% of rated voltage, a corrective work request is initiated. The average dropout voltage is compared to the last three previous readings. If any discrepancies exist, a corrective work request is initiated.
4. The STA is inspected and tested as specified in the Westinghouse Maintenance Manual. If the STA is not functional, it is replaced.
5. Lubrication is performed as specified in the Westinghouse Maintenance Manual. Molybdenum Disulfide, Molykote BR-2 from Dow Corning or equivalent, is used. The recommended lubrication period is every 18 months or 500 operations. If maintenance is more frequent than this, the lube points are inspected for sufficient lubrication before applying additional grease.
6. Upon completion of the maintenance program, the breakers are retested for operability prior to returning to service.

NOTE: As an added precaution, and to assure reliable operation, the bypass breakers have their maintenance performed, or at least functionally tested, prior to replacing the Reactor Trip Breakers (RTB).

Group B Activities

1. Pre-cleaning insulation resistance, "megger" readings, are taken and recorded as specified in the Westinghouse Maintenance Manual. The insulation is inspected for cracks, discoloration, accumulation of dust or other signs which might indicate overheating of weakened insulation.
2. Dust from buses, connections, supports and enclosure surfaces on the breaker is removed and the RTB is cleaned.
3. Post-cleaning megger readings are taken and recorded as specified in the Westinghouse Maintenance Manual.
4. The main and secondary disconnecting contacts and supports are inspected. Bolt tightness, secondary wiring, cell switches, mechanical parts, instruments, relays, and other panel mounted devices are inspected. Corrective action is taken, if necessary.
5. The UVTA trip force is measured as specified in the Westinghouse Maintenance Manual and the results are recorded.
6. The breaker trip load check is measured as specified in the Westinghouse Maintenance Manual and the results are recorded.
7. A functional check as specified in the Westinghouse Maintenance Manual is performed on the breaker prior to returning the system to service.