

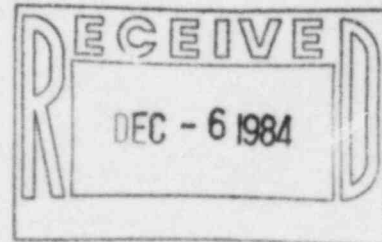


KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER
VICE PRESIDENT - NUCLEAR

December 1, 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 84-208
Re: Docket No. STN 50-482
Ref: Interim Report KMLNRC 84-056 dated 4/05/84 from
GLKoester, KG&E, to EHJohnson, NRC
Subj: Final 10CFR50.55(e) Report - Standby Diesel
Generator Lube Oil Keep Warm Pump (53564-K126)

Dear Mr. Denise:

This letter provides the final report submitted pursuant to 10CFR50.55(e) concerning the Standby Diesel Generator Lube Oil Keep Warm Pumps (PKJ03A/B) at Wolf Creek Generating Station (WCGS). This matter was initially reported on March 9, 1984 with supplemental information provided in the Reference.

The Lube Oil Keep Warm Pump (LOKWP) is driven by a Class 1E electrical motor and operates continuously while the diesel engine is in a standby mode of operation. The LOKWP performs no active safety-related function and must only maintain the pressure boundary once the diesel generator is started. An engine driven lube oil pump operates while the diesel generator is running. All piping to and from the pump is seismic Category I and ASME Section III.

Due to repeated failures of the Crane-Deming ASME Section III, Class 3 lube oil keep warm pumps, the ASME Section III, Class 3 pumps at WCGS have been removed to preclude additional failures. The present design of these pumps has proven to be too unreliable for continued use in the standby diesel generators. Therefore, the Crane-Deming pumps will be redesigned/reworked as necessary to assure that they perform reliably. The redesign/rework of the pumps and their installation at WCGS cannot be accomplished prior to fuel load.

The presently installed, Viking, pumps were provided by the diesel generator manufacturer when the diesels were originally shipped to the

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Site due to the unavailability of the ASME Section III, Class 3 pumps. These pumps have proven to be reliable and have not failed in use. The pumps, however, are not ASME Section III, Class 3.

The diesel manufacturer has seismically qualified for another nuclear unit, a non-ASME pump which is structurally very similar (the pump manufacturer and model line are the same) to the Viking pumps presently installed at Wolf Creek. The seismic qualification report for these pumps has been reviewed and it has been found to meet the WCGS seismic criteria. Therefore the pumps which are presently installed at WCGS are capable of surviving a seismic event without loss of pressure boundary.

The LOKWP circulates lube oil within the keep-warm system which provides the following functions:

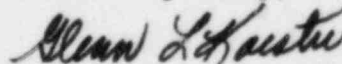
- a. Maintains the oil in the sump in a warm condition to ensure a quick start.
- b. Prelubricates the essential engine components to minimize the possibility of oil starvation.
- c. Maintains oil purity by continuous filtration and straining.

In the past, it has been the NRC's position that the diesel generator auxiliary systems be seismic Category I and Quality Group C (ASME Section III, Class 3) based on Regulatory Guides 1.29 and 1.26; however, components that are considered to be an integral part of the engine and designed for that application have been accepted as non-ASME. Additionally, a recent review of several other nuclear units indicates that non-ASME auxiliary components that are not an integral part of the engine have been accepted by the NRC.

Since the non-ASME Section III LOKWP has proven to be reliable, is capable of surviving a seismic event, and performs no active safety-related function, it is deemed suitable for interim use until the replacement ASME Section III, Class 3 pumps are installed.

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

Yours very truly,



Glenn L. Koester
Vice President - Nuclear

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