



KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER
VICE PRESIDENT - NUCLEAR

March 26, 1986

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

KMLNRC 86-052
Re. Docket No. STN 50-482
Subj: Wolf Creek Generating Station
Cycle 2 Reload Using ANC

Dear Mr. Denton:

The refueling shutdown at the end of Wolf Creek Cycle 1 is planned to commence in October, 1986. Startup of Cycle 2 is expected to occur in late November or early December, 1986. This letter is to advise you of Kansas Gas and Electric Company's (KG&E) plans to reference the Westinghouse Advanced Nodal Code (ANC) described below in support of the upcoming Cycle 2 reload design. The ANC Topical WCAP-10965 was submitted to the Staff in January 1986 for their review and approval. KG&E intends to reference this code in the Wolf Creek Cycle 2 reload safety evaluation. The Topical submittal is consistent with the Staff's scheduling guidance that reload analyses based on models and methods that are not yet approved by the Staff are submitted at least six months prior to the date that a license amendment is required to authorize restart.

To improve the prediction accuracy and to eliminate the need to benchmark nodal calculations against discrete calculations, the ANC methodology will be used in the Wolf Creek Cycle 2 reload design. The ANC includes new nodal methods to predict assembly power, rod power, and reactivities. The new methodology will confirm that the conclusions given in the currently approved reload methodology (WCAP-9272-P-A) are valid when the ANC is applied to the Cycle 2 core design calculations.

Kansas Gas and Electric Company will perform a technical review of the Westinghouse reload safety evaluation for the Wolf Creek Cycle 2 design including an assessment of the impact of the ANC code on the core design and safety evaluation. It is anticipated that unreviewed safety questions as defined by 10CFR50.59 will not be involved, and therefore, application for amendment to the Wolf Creek operating license is not expected. However,

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should the results of our safety review identify technical specification changes or potential unreviewed safety questions, the Staff will be notified consistent with the requirements of 10CFR50.59, so as to afford adequate lead time for Staff review prior to the Wolf Creek Cycle 2 startup.

In summary, pending NRC approval of the ANC code topical, WCAP-10965, for which an expedited NRC review and approval has been requested (about mid-1986), the Cycle 2 reload design will proceed using the ANC code under the provisions of 10CFR50.59.

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

Very truly yours,

for John C. Bailey

Glenn L. Koester
Vice President - Nuclear

GLK:see

cc: PO'Connor (2)
JCummins