

Omaha Public Power District
444 South 16th Street Mall
Omaha, Nebraska 68102-2247
402/636-2000

June 30, 1992
LIC-92-207R

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-137
Washington, DC 20555

- References: 1. Docket No. 50-285
2. Letter from NRC (D. L. Wigginton) to OPPD (W. G. Gates) dated March 2, 1992
3. Letter from OPPD (W. G. Gates) to NRC (Document Control Desk) dated January 9, 1992 (LIC-91-319R)

Gentlemen:

SUBJECT: Resolution of Follow-up Items for Elevated Ambient Air Temperature Effects on the Fort Calhoun Station Emergency Diesel Generators (EDGs)

Omaha Public Power District (OPPD) committed in Reference 3 to complete two actions by June 30, 1992. These items and the actions taken are noted below.

- (1) Determine the frequency of a preventive maintenance (PM) activity for EDG radiator inspection and cleaning to ensure optimum cooling system performance.

Based on equipment configuration and past experience, inspection and cleaning of the EDG radiators will be performed as a PM activity on a refueling outage frequency. This PM frequency may be adjusted in the future based on operating and inspection results.

- (2) Generate a PM to ensure that the seasonal coolant changeout be maintained to assure hot weather capability of the EDGs.

Implementation of actions during the 1992 refueling outage to enhance EDG performance may have obviated the need for seasonal coolant changeout. As planned, OPPD replaced the existing 8-bladed radiator fans with 12-bladed assemblies. This increased the air flow through the radiators, thereby reducing jacket water temperatures. Also, a modification removed a non safety-related large load from EDG-2. This improved the upper ambient air temperature limits substantially for EDG-2.

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Based on the above noted enhancements, an engineering calculation and 10 CFR 50.59 safety evaluation have been completed. They demonstrate acceptability of using ethylene glycol solution as coolant in all seasons, with resulting ambient air upper temperature limits of 104°F for EDG-1 and 110°F for EDG-2. This is a temporary change from the previous licensing basis limits of 110°F for both EDG-1 and EDG-2 noted in Reference 2.

OPPD plans to perform hot weather testing of EDG-1 and EDG-2 during the summer of 1992 to verify the engineering evaluation results. The testing and subsequent evaluation of the results will be used towards raising the EDG-1 limit to the OPPD goal of 110°F for both EDG-1 and EDG-2. OPPD will provide a summary of the hot weather testing results and any resultant actions to the NRC by October 31, 1992.

If you should have any questions, please contact me.

Sincerely,

W. G. Gates

W. G. Gates
Division Manager
Nuclear Operations

WGG/grc

c: LeBoeuf, Lamb, Leiby & MacRae
R. D. Martin, NRC Regional Administrator, Region IV
R. P. Mullikin, NRC Senior Resident Inspector
S. D. Bloom, NRC Acting Project Manager