



MISSISSIPPI POWER & LIGHT COMPANY

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P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

January 20, 1984

NUCLEAR PRODUCTION DEPARTMENT

U. S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington, D. C. 20555

Attention: Mr. Harold R. Denton, Director

Dear Mr. Denton:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-13
File: 0272/L-334.0
Ref: AECM-84/0024
MAEC-83/0327
Additional Information on Agastat
Relays
AECM-84/0034

This letter will confirm certain actions being taken by MP&L to resolve the full power licensing issue regarding Agastat relays. MP&L transmitted on January 6, 1984 (AECM-84/0024), the GGNS response to the NRC request for additional information on Agastat relays along with the accelerated schedule for the relay replacement. Subsequent discussions were conducted on January 13, 1984, between Mr. Marty Virgillio of the Instrumentation and Control Systems Branch (ICSB) and MP&L to address any remaining clarifications or actions necessary for NRC review.

As a result, MP&L will perform an analysis on the effect of varying the testing intervals for the ECCS (includes RHR, LPCS, LPCI, HPCS and RCIC systems). This analysis is being performed to consider systems containing a significant number of Agastat relays which are tested on an 18 month interval. The ECCS analysis will be conducted in a similar manner to that performed for the RPS analysis discussed in AECM-84/0024. An expanded discussion on the application of common mode failure rate assumptions used in the GGNS analysis will also be provided with the ECCS results as requested by Mr. Virgillio. The results of this analysis will be provided to the NRC by February 17, 1984.

Mr. Virgillio also requested MP&L to clarify its position on the replacement of the new date code (i.e., post-August 1977) Agastat GP series relays used in normally energized, safety related applications. These relays were not replaced due to the improved design modification performed to remove the identified failure mechanism of the contact arm interference with the relay base. However, based on recent test data the GP series relays were initially determined to have a conservatively calculated service life of 4.5 years in the energized application, as reported in AECM-83/0668, dated October 17, 1983. These relays are not expected to reach the end of this service life until approximately mid-1985. MP&L, in coordination with GE and Amerace Corporation (Agastat relay manufacturer), will continue to evaluate the service life of the GP series relays in order to either extend their service life or to develop a program for their replacement prior to reaching the end of their calculated service life.

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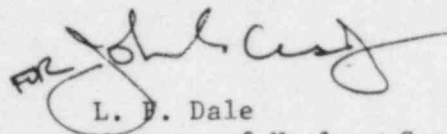
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Based on the additional information provided in this letter and that provided on January 6, 1984 (AECM-84/0024), MP&L considers this matter to be resolved for GCNS Unit 1 full power licensing.

Yours truly,

A handwritten signature in dark ink, appearing to read "L. P. Dale", is written over a circular stamp or seal.

L. P. Dale

Manager of Nuclear Services

SAB/JGC:rg

cc: Mr. J. B. Richard
Mr. R. B. McGehee
Mr. T. B. Conner
Mr. G. B. Taylor

Mr. Richard C. DeYoung, Director
Office of Inspection & Enforcement
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