MISSISSIPPI POWER & LIGHT COMPANY
Helping Build Mississippi
P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

October 14, 1982

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: 0260/0272/L-344.0
Ref: MAEC-82/210
Remote Shutdown Panel Environment; O.L. Condition 2.C (44a)
AECM-82/473

The following information is being provided in response to the Human Factors Engineering Branch (HFEB) informal request for information dated September 13, 1982 with regards to meeting certain human performance environmental conditions in the GGNS Remote Shutdown Panel (RSP) area. In accordance with this transmittal, MP&L has been requested to meet an 85°F "effective temperature" environment based on a range of temperature and humidity conditions specified for the RSP area. This issue is the only remaining open item as a result of the HFEB review required by Operating License Condition 2.C(44a). The final NRC approval of this license condition has been predicated on the commitment by MP&L to meet this request by startup from the first regularly scheduled refueling outage.

Human factor guidelines have not historically been available for such areas as the remote shutdown panels where personnel occupancy would be extremely infrequent, if at all. Therefore, design conditions were only based on switchgear and equipment needs in this area. The Safeguards Switchgear and Battery Room Ventilation System provides safety related cooling to this area and has a design temperature range of 65 - 104°F and 30 - 90% humidity. Even though the upper limits of the design conditions are beyond the NRC requested effective temperature levels, the average conditions in the RSP are not expected to exceed the NRC guidance by more than 10% of the time.

MP&L recognizes that in the event the remote shutdown panels are ever manned due to control room unavailability, the operator(s) should be capable of performing reactor shutdown efficiently. However, the need for design modifications has not been fully evaluated and justified by MP&L based on the recent development of these guidelines and the existing design features in this area. In light of this, MP&L commits to meet the NRC effective temperature condition for the RSP area by startup from the first regularly scheduled

B001

refueling outage or provide adequate justification for alternate resolution. The design criteria for any system modifications will be determined by MP&L based on the requirements for reliable operator performance and the existing associated RSP area design conditions. MP&L will provide this evaluation four months prior to the proposed implementation schedule.

MP&L considers this commitment responsive to the NRC request and thereby fulfills the requirements of O.L. Condition 2.C (44a). Please advise this office for any additional information you may require.

Yours truly,

L. F. Dale
Manager of Nuclear Services

SAB/SHH/JDR:rg

cc: Mr. N. L. Stampley
Mr. R. B. McGehee
Mr. T. B. Conner
Mr. G. B. Taylor

Mr. Richard C. DeYoung, Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. J. P. O'Reilly, Regional Administrator
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 3100
Atlanta, Georgia 30303