Attachment 2
AECM-83/ 0040

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

NUCLEAR PRODUCTION DEPARTMENT

October 18, 1982

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
Units 1 and 2
Docket Nos. 50-416 and 50-417
License No. NPF-13
File 0260/[illegible]50.0
Deep Draft Pump Reliability -
SER Section 1.10 (13)
AECM-82/491

In order to address the NRC's concerns for deep draft pump reliability as summarized in SER Sections 1.10 (13), 5.4.2, and 6.3.2.3, Mississippi Power & Lght Company (MP&L) submitted AECM-82/460. However, the submittal contained a commitment to summarize the vibration monitoring analysis program for deep draft pumps at a later date.

MP&L is providing as Attachment 1 the subject summary to close the issue of deep draft pump reliability for full power licensing. If you have any questions, please do not hesitate to contact us.

Yours truly,

L. F. Dale
Manager of Nuclear Services

MJD/JDR:lm

Attachment: Grand Gulf Deep Draft Pump Vibration Monitoring Trend Analysis Program

cc: Mr. N. L. Stampley (w/a)
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Mr. R. B. McGehee (w/o)
Mr. G. B. Taylor (w/o)

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bcc: Mr. J. B. Richard (w/o)
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Mr. A. G. Wagner (w/a)
Mr. C. C. Hayes (w/a)
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Mr. J. F. Pinto (w/o)
Mr. M. D. Archdeacon (w/o)
File (LCTS) (w/a)
File (w/a)

Grand Gulf Deep Draft Pump Vibration Monitoring Trend Analysis Program

Each of the eight deep draft pumps listed below are functionally tested at periodic intervals of once per month.

1) RHR A Pump
2) RHR B Pump
3) RHR C Pump
4) LPCS Pump
5) HPCS Pump
6) SSW A Pump
7) SSW B Pump
8) HPCS SW Pump

During each testing, vibration measurements are taken and included with the test results. The plant technical engineering staff reviews the test results and a graphical trend analysis of the vibration results is performed. This analysis compares test values with established base line values to ensure that acceptable values are not exceeded. The acceptable values and ranges are in accordance with the guidelines in ASME section XI, Article IWP-3000, manufacturers pump curves, and preoperational test procedures. The baseline values are a fixed set of values observed and measured with the pumps known to be operating acceptably. Two sets of readings are taken from two different parts of the pumps. Each reading each month is plotted. At present, test values and graphical analysis do not show any particular trends. As more data is collected, the graphs will be closely watched for any developing trends.