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

NUCLEAR PRODUCTION DEPARTMENT

September 1, 1981

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
File 0260/0862/L-340.0
Transmittal of Proposed FSAR
Changes and Responses to
NRC Formal and Informal
Questions
AECM-81/340

In response to formal and informal requests for additional information, Mississippi Power & Light Company is submitting the enclosed information for your review. Be advised that Attachment 1 on GDC 51 Compliance supersedes our previous response which was submitted via AECM-81/325 dated August 27, 1981.

Proposed FSAR changes mentioned or provided in the attached will be incorporated into a forthcoming amendment to the FSAR. If you have any questions or require further information, please contact this office.

Yours truly,

L. F. Dale
Manager of Nuclear Services

DWF/JDR/cm

Attachments: 1. Materials Engineering Branch SER Open Item - GDC 51 Compliance
2. Containment Systems Branch SER Open Item - Drywell Bypass Leakage Rate Test

cc: (See Next Page)

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

Mr. Victor Stello, Jr., Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SER Open Item

GDC 51 Compliance - (MTEB)

RESPONSE

A finite element analysis is being performed to determine the minimum design thickness of the feedwater line flued heads in the axial direction. The results of the analysis for the feedwater flued heads are expected to be finalized the week of August 31, 1981, and will be submitted via separate letter. Preliminary results of the analysis for the main steam line flued heads will be submitted in October with a final report submitted prior to fuel load.

Quaker Alloy Casting Company has conducted a metallographic study which confirms that the metallurgical structure of the isolation valve bodies on the main steam and feedwater lines is sound. A copy of the report by Quaker Alloy is attached.

The Lowest Service Metal Temperature (LSMT) of 60°F is applicable to the disc of one outboard feedwater check valve (B21-F032B). The disc could experience this temperature during RCIC injection of water from the condensate storage tank. Since a lowest permissible service metal temperature of 78°F has been determined for this disc, the disc will be replaced during the first refueling outage. The replacement disc will be fabricated using a material with a sufficiently low nil ductility transition temperature to ensure a permissible LSMT below 60°F.

The disc of the other outboard feedwater check valve (B21-F032A) will experience a LSMT of 80°F. Since the permissible LSMT for this disc is below 80°F, this disc will not be replaced.

SER Open Item

Drywell Bypass Leakage Rate Test - Surveillance Frequency - (CSB)

RESPONSE

The current GGNS Tech Specs (Proof and Review Copy, dated August 4, 1981) states:

4.6.2.2 The drywell bypass leakage rate test shall be conducted at least once per 18 months or once per refueling outage whichever interval is longer at an initial differential pressure of 3.0 psid and the $A/\sqrt{k}$ shall be calculated from the measured leakage. One drywell airlock door shall remain open during the drywell leakage test such that each drywell door is leak tested at least every other drywell leakage rate test.

a. (If any drywell bypass leakage rate test fails to meet the specified limit, the test schedule for subsequent tests shall be reviewed and approved by the Commission. If two consecutive tests fail to meet the limit, a test shall be performed at least once every 9 months until two consecutive tests meet the limit, at which time the above test schedule may be resumed.)

b. Airlocks shall be tested and deomonstrated OPERABLE per Surveillance Requirement 4.6.2.2.

c. The provisions of Specification 4.0.2 are not applicable.

MP&L commits to the above statement.