



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY, JR.
ASSISTANT VICE PRESIDENT

January 20, 1981

80-057-034

Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, N.W.
Suite 3100
Atlanta, Georgia 30303

Attention: Mr. J. P. O'Reilly, Director

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station
Units 1 and 2
Docket Nos. 50-416/417
File 0260/15525/15526
PRD-80/55, Status Report No. 2,
PGCC Cable Assemblies - Connector
Extenders
AECM-81/40



Reference: AECM-80/249, 10/13/80

On September 12, 1980, Mississippi Power & Light Company notified Mr. M. Hunt of your office of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns the incorrect installation of backshells on connectors used on certain cable assemblies supplied by General Electric. These cable assemblies were supplied for the Power Generation Control Complex (PGCC).

We are reviewing results of NSSS vendor tests in order to determine reportability under 10CFR50.55(e) and 10CFR21. Our status report is attached. We expect to determine final reportability by June 26, 1981.

Yours truly,

J. P. McGaughy, Jr.
for J. P. McGaughy, Jr.

CWH:mt
Attachment

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

Mr. Victor Stello, Director
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STATUS REPORT NO. 2 FOR PRD-80/55

I. Description of the Deficiency

Certain PGCC cable assemblies supplied by General Electric were installed incorrectly. An adapter was used to connect fine-threaded extension pieces to the backshell of Cannon connectors. However, this adapter was incorrectly used with coarse-threaded extension pieces manufactured by Sunbank. Cable assemblies with this deficiency appear susceptible to disconnection, since they have less than one thread engagement joining the connector backshell with its Sunbank extension. Examples of systems affected are the Neutron Monitoring System (C51) and the Nuclear Boiler System (B21).

II. Proposed Resolution

Mississippi Power & Light Company is working with the constructor to evaluate this deficiency and to make the following determinations:

1. The cause, including the extent of the problem;
2. Corrective action to be taken;
3. Action to preclude recurrence;
4. Effect on the safety of plant operations.

Our decision as to reportability under 10CFR50.55(e) and 10CFR21 will be based on the above items.

III. Status of Proposed Resolution

The NSSS vendor performed a special quality study on mismatch of threads-cable connectors to Sunbank adapters in order to determine the effect on safety. Quality Control inspectors visually inspected all panel and termination cabinet connectors. The results of their inspection plus a review of samples of all types of connectors, adapter rings, and Sunbank adapters revealed that the only potentially mismatched threads were Cannon connector size 20. Bending moment tests were performed on five (5) samples of the mismatched combinations to assure compliance with MIL-C-5015 G strength specifications. The required bending moment was applied at 90° intervals on each sample with no thread failures observed. MP&L is currently reviewing the above study for adequacy and subsequent determination of corrective action.

IV. Reason for Delay in Final Report

The review and evaluation of vendor study is not complete.

V. Final Report Date

We expect to file our final report by June 26, 1981.