



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

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December 18, 1986

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O. D. KINGSLEY, JR.

VICE PRESIDENT - NUCLEAR OPERATIONS

U. S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 2900
Atlanta, Georgia 30323

Attention: Dr. J. Nelson Grace, Regional Administrator

Dear Dr. Grace:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-29
Equipment Qualification,
Inspection of Air Operated
Valves Actuator Wiring
AECM-86/0400

- References: 1. MP&L Letter to the NRC, AECM-86/0355 dated November 17, 1986
2. MP&L Letter to the NRC, AECM-86/0392 dated December 5, 1986

Reports on recent inspection activities regarding Raychem splices and Limitorque motor operators were provided to the NRC in the Mississippi Power & Light Company (MP&L) letters referenced above. In the process of evaluating results from the Raychem splice inspections, concerns were identified regarding certain wiring in environmentally qualified actuators on air operated valves.

This letter is provided to document actions taken on this subject and the status of our evaluation of inspection results. The attached summary provides that information. As discussed in the attachment, actuator internal wiring whose qualification status was not readily established was replaced with fully qualified wiring prior to plant restart. A reportability determination of the "as-found" condition is in process and will be completed in January 1987. Your staff will be advised of the results of that determination at that time.

Yours truly,

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Attachment

cc: (See Next Page)

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Member Middle South Utilities System

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cc: Mr. T. H. Cloninger (w/a)
Mr. R. B. McGehee (w/a)
Mr. N. S. Reynolds (w/a)
Mr. H. L. Thomas (w/o)
Mr. R. C. Butcher (w/a)

Mr. James M. Taylor, Director (w/a)
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

INSPECTION OF WIRING IN AIR OPERATED VALVE ACTUATORS

I. INTRODUCTION

1. During the first refueling outage at Grand Gulf Nuclear Station (GGNS), special environmental qualification inspections were conducted with regard to Raychem splices and Limitorque motor operators. Inspection findings, actions, and evaluation status were provided to the NRC in MP&L letters (AECM-86/0355, dated November 17, 1986 and AECM-86/0392, dated December 5, 1986).
2. As part of the Raychem inspection effort, random splice samples were removed from reworked splices. An engineering review of these samples revealed that the environmental qualification status of the wiring could not readily be established. The splice samples were removed from actuators associated with air operated valves (AOV). As a result of the discovery of this wiring, MP&L elected to perform further AOV actuator wiring inspections prior to plant restart. This letter documents that inspection, actions taken, and current evaluation status.

II. INSPECTION SCOPE/RESULTS

1. A review of GGNS environmental qualification documentation revealed 99 AOV actuators qualified to 10 CFR 50.49. The majority of these actuators were supplied by Bettis or Hiller.
2. The inspection scope included all 99 AOV actuators. This inspection focused only on actuator internal wiring and was performed in late November 1986.
3. Any actuator internal wiring whose qualification status could not be readily established was replaced with fully qualified wiring for GGNS applications. Nineteen actuators required wiring replacement per this criteria. Inspections and replacement work were completed prior to plant restart and the commencement of startup testing.

III. REPORTABILITY

1. The removed wiring has been categorized and representative samples have been sent to an independent material analysis facility. That material analysis is currently underway. In a situation very similar to the Limitorque MOV operator wiring inspections, the material analysis will be used to make a final reportability determination regarding the "as-found" condition.
2. Based on current schedules a final reportability determination will be completed in January 1987. The NRC Region II staff will be advised of the results of the determination at that time.