



# MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY, JR.  
VICE PRESIDENT

March 31, 1983

Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, N.W.  
Suite 2900  
Atlanta, Georgia 30303

Attention: Mr. J. P. O'Reilly, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station  
Unit 2  
Docket No. 50-417  
License No. NPF-13  
File 0260/15525/15526  
PRD-81/29, Supplemental Interim  
Report, Temp Flex Penetration  
Bellows Assemblies  
AECM-83/2-0003

Reference: AECM-81/385, 10/6/81

On May 29, 1981, Mississippi Power & Light Company notified Mr. V. Brownlee, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns incorrectly welded spokes on the bellows end sleeves of penetration assemblies manufactured by the Temp Flex Company of Compton, California.

This deficiency was determined to be not reportable and was closed out for Unit 1 and Unit 2 in Inspection Report 50-416/81-50 and 50-417/81-22. However, on March 1, 1983, MP&L informed Mr. R. Butcher, of your office, that the PRD was being re-opened to assure that the deficiency is adequately addressed for Unit 2.

Our investigation into this matter is continuing. Details are provided in the attached Interim Report. MP&L expects to submit a Final Report by October 7, 1983.

Yours truly,

J. P. McGaughy, Jr.  
For

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ATTACHMENT

cc: See page 2

Member Middle South Utilities System

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Mr. J. P. O'Reilly  
NRC

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cc: Mr. J. B. Richard  
Mr. R. B. McGehee  
Mr. T. B. Conner

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

Mr. G. B. Taylor  
South Miss. Electric Power Association  
P. O. Box 1589  
Hattiesburg, MS 39401

SUPPLEMENTAL INTERIM REPORT TO PRD-81/29

I. Description of the Deficiency

Penetration bellows assemblies manufactured by Temp Flex have exhibited cracked and broken welds at the junction of "Spokes" to the bellows end sleeves. Contrary to drawing requirements, fillet welds were used instead of full penetration welds.

This deficiency affects the Nuclear Boiler System (B21), Standby Liquid Control System (C41), Residual Heat Removal System (E12), Reactor Core Isolation Cooling System (E51), Reactor Water Cleanup System (G33) and the Fuel Pool Cooling and Cleanup System (G41).

This deficiency is applicable to Unit 2 only, and does not apply to the NSSS supplier. The safety implications of this deficiency are unknown at this time.

II. Approach to Resolution of the Problem

The cause and extent of the deficiency are under investigation. Corrective and remedial actions will be addressed upon completion of the investigation.

A cursory inspection of some of the bellows assemblies in the field has confirmed that similar problems of broken and incorrect welds exist in the Unit 2 bellows assemblies as did in Unit 1. Nonconformance report NCR 6535 has been initiated to document and track all nonconforming conditions that are found from a complete inspection of each Unit 2 bellows assembly supplied under Bechtel Specification 9645-M-318.0. Upon completion of the inspections, the NCR will be dispositioned and processed in accordance with applicable procedures. Those assemblies not in the field will be brought up from Bechtel's Natchez warehouse for inspection and be sent to Bechtel's Vicksburg Fabrication Shop for repair/rework if required.

III. Status of Proposed Resolution

The safety implications, cause, extent and corrective actions are scheduled to be resolved by August 26, 1983, based on the results of the investigation described above.

IV. Reason Why a Final Report Will Be Delayed

Due to the limited scope of construction at this time, the investigative actions identified above are scheduled to be completed by July 1, 1983.

V. Date When a Final Report Will Be Submitted

MP&L expects to submit a Final Report, concerning this matter, by October 7, 1983.