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

JAMES P. McGAUGHY, JR.
ASSISTANT VICE PRESIDENT

June 16, 1981

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-80/34, Supplement to Final Report, Information Incorrectly Transferred From Design Drawing to Field Sketch
AECM-81/209

References: 1) AECM-80/164, 7/23/80
2) AECM-80/223, 9/16/80

On June 26, 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 translation of weld requirements from design drawings to field sketches.

As reported in Reference 2 above, we have determined that this deficiency is reportable under 10CFR50.55(e). Our final report on this matter (Reference 2) did not provide you with the disposition of the four defective welds. Also, Reference 2 final report erroneously listed weld 45 instead of 46 in Part I, "Description of Deficiency". A supplemental report is attached.

Yours truly,

For J. P. McGaughy, Jr.

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EWC:dr
ATTACHMENT

cc: See page 2

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

Mr. Victor Stello, Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
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Mr. G. B. Taylor
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bcc: Dr. D. C. Gibbs
Mr. D. C. Lutken
Mr. J. N. Ward
Mr. W. A. Braun
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Mr. J. W. Yelverton
Mr. L. F. Dale
Mr. C. K. McCoy
Mr. T. H. Cloninger
Mr. R. A. Ambrosino
Mr. R. C. Fron
Mr. G. B. Rogers
Mr. M. R. Williams
Mr. L. E. Ruhland
Mr. D. L. Hunt
Mr. A. G. Wagner
Mr. P. A. Taylor
PRD File
File

SUPPLEMENT TO FINAL REPORT FOR PRD-80/34

I. Description of Deficiency

Four containment penetration welds were made contrary to design drawing instruction. Field welds for penetrations 71 (two welds), 70, and 46 (Drawing 9645-C-1004) were welded as fillet welds, as called for on the field sketches, rather than as full penetration welds and partial penetration plus fillet welds, as called for on the design drawing.

The systems affected are:

Residual Heal Removal System (Q1E12)
Low Pressure Core Spray System (Q1E21)
Reactor Core Isolation Coolant System (Q1E51)
Instrument Air System (Q1P51)

II. Safety Implications

All four deficient welds are located on GGNS Unit 1 Containment penetrations. GGNS Unit 2 is unaffected by this deficiency.

The constructor has determined that the welds used for penetrations 46, 70, and 71 were inadequate and could have caused a loss of containment integrity if they had remained uncorrected.

III. Corrective Actions

Containment penetration drawings, field sketches, and design drawings have been reviewed by our constructor and it has been determined that the condition is limited to the four containment penetration welds described above for Unit 1. The noncompliant welds have been removed and rewelded.

The field sketches containing the erroneous welding direction have been corrected by removing all welding direction and adding the instruction to see the Design Drawing (9645-C-1004) for welding direction.

To prevent recurrence, the field sketches which are generated from Civil Drawings will not include welding direction on the sketch but will include the instruction to see the Civil Drawing for welding direction. All Unit 1 containment penetration field sketches have been revised to comply with this method. When Unit 2 field sketches are generated, they will also comply with this method.

This condition is being tracked by Bechtel MCAR GGNS-88.