



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

PRODUCTION DEPARTMENT

September 11, 1978

Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Region II - Suite 1217  
230 Peachtree Street, N. W.  
Atlanta, Georgia 30303

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

Dear Sir:

SUBJECT: Grand Gulf Nuclear Station  
File 0260/0498/15525/15526  
Final Report of PRD 78/05  
As Defined in 10CFR50.55(e)  
AECM-78/72

On August 11, 1978, Mississippi Power & Light Company notified Mr. J. C. Bryant of your office of a potential reportable deficiency concerning the structural steel design of the Unit 1 Auxiliary Building at the Grand Gulf Nuclear Station construction site. We have now determined that this is a reportable deficiency within the meaning of 10CFR50.55(e)(1)(ii). Details of this matter, including corrective commitments, are described in the attached final report.

Yours truly,

*L F D*  
for J. P. McGaughy, Jr.  
Director of Power Production

JRF/LFD:dwe  
Attachment

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

Dr. Ernst Volgenau, Director *THIS COPY FOR*  
Division of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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FINAL REPORT  
AUXILIARY BUILDING DESIGN DEFICIENCY  
PRD NO. 78/05

I. Description of the deficiency:

In May, 1977, during a review of the design calculations for the structural steel floor framing at Elevation 103'-0" in areas 7, 8, 9 and 10 of the Unit I Auxiliary Building and in areas 19, 20, 21 and 22 of the Unit II Auxiliary Building, a deficiency was found in the design criteria used. In each building at this elevation, the floor framing is used for the support of a service or maintenance platform consisting of galvanized bolted grating. This grating can be removed in sections to gain access to piping and other systems below the platform. The design criteria used allowed the removable grating to provide lateral bracing of the beams and girders supporting each platform. Additionally, the design criteria did not allow for loads on the support beams and girders which would be imposed by numerous piping systems or utilities suspended from each platform.

II. Safety Implications:

This deficiency is reportable within the meaning of 10CFR50.55(e)(1)(ii) because it constituted a significant deficiency in the design released for construction such that the design did not conform to the design criteria on which the construction permit was based.

III. Corrective Action Taken:

The corrected design criteria provided for loads which would be imposed on the support beams and girders. The structural steel framing plans for the Unit 1 platform were corrected and issued for rework in August, 1977. The structural steel framing plans for the Unit 2 platform were redesigned to be in accord with the corrected design criteria and issued for construction in June, 1977.

Details of the corrective action taken for this deficiency and documentation regarding action taken to prevent recurrence will be documented in Bechtel's Management Corrective Action Report (MCAR) No. GGNS-40, which is available for your review at the GGNS construction site.