



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. MCGAUGHY, JR.
ASSISTANT VICE PRESIDENT

JUL 7 1981
June 29, 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-80/75, Final Report
Defects in Structural Steel
AECM-81/227

On December 30, 1980, Mississippi Power & Light Company notified Mr. J. Rausch, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns imperfections in nuclear designated structural steel supplied by Mills Alloys located in Cleveland, Ohio.

We have determined this deficiency is not reportable within the meaning of either 10CFR50.55(e) or 10CFR21. Attached is our final report.

Yours truly,

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

ATR:dr
ATTACHMENT

cc: See page 2

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Mr. J. P. O'Reilly
NRC

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

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Mr. D. L. Hunt
Mr. A. G. Wagner
Mr. P. A. Taylor
PRD File
File

FINAL REPORT FOR PRD-80/75

I. Description of Deficiency

- A. Longitudinal indications in the form of cracks/tears have been found on structural steel wide flange beams (WF 12/136). The web of the beams shows imperfections from 1/2"-12" long and 1/32"-1/8" deep.
- B. These indications are identified on WF 12/136 steel heat #73E230 (USS), 70A010 (USS), 72A193 (USS) purchased from Mills Alloy and manufactured by U. S. Steel.

II. Analysis of Safety Implications

- A. The indications in the structural steel occur during the normal manufacturing process of steel shapes since the rolling of structural shapes is from ingot to final form with no intermediate conditioning. Material specification ASTM A-6 allows for certain of these imperfections with provisions and guidelines for conditioning or repairing.
- B. The cited condition(s) were evaluated by the manufacturer and our Architect/Engineer and it was determined that the structural integrity of the beams was not affected. Therefore, the cited deficiencies would not have affected the safe operation of the plant.

III. Corrective Actions Taken

- A. The cause of the deficiency is described in Item IIA. The extent of the deficiency is limited to the heats identified in Item IB.
- B. The defective steel was returned to the supplier for an evaluation to determine the affect on structural integrity. Mills Alloy and United States Steel (USS) stated in their responses that the material was acceptable under the provisions of ASTM A6, and the structural integrity was not affected. Our Architect/Engineer has requested that Mills Alloy condition the subject steel in accordance with material specification ASTM A6 and reship.