LOUISIANA POWER & LIGHT / 142 DELARONDE STREET
P. O. BOX 6008 • NEW ORLEANS, LOUISIANA 70174 • (504) 366-2345
MIDDLE SOUTH UTILITIES SYSTEM

May 15, 1984

W3K84-1180
Q-3-A35.07.78

Mr. John T. Collins
Regional Administrator, Region IV
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76012

RECEIVED
MAY 21 1984

REFERENCE: LP&L Letter W3K84-0981 dated April 27, 1984

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Significant Construction Deficiency No. 78
"American Bridge Structural Steel Deficiencies"
Final Report

In accordance with 10CFR50.55(e), we are hereby providing two copies of the Final Report for Significant Construction Deficiency No. 78, "American Bridge Structural Steel Deficiencies".

If you have any questions, please advise.

Very truly yours,

T. F. Gerrets

T. F. Gerrets
Corporate Quality Assurance Manager

TFG:CNH:SSTG

cc: Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555
(15 copies)

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cc: Director
Office of Management
Information and Program Control
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. E. L. Blake
Shaw, Pittman, Potts & Trowbridge
1800 M Street, N.W.
Washington, D.C. 20036

Mr. W. M. Stevenson
Monroe & Lemann
1424 Whitney Building
New Orleans, Louisiana 70130

Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

Mr. W. A. Cross
7910 Woodmont Avenue
Suite 1200
Bethasda, Maryland 20814

FINAL REPORT OF
SIGNIFICANT DEFICIENCY NO. 78
"AMERICAN BRIDGE STRUCTURAL STEEL DEFICIENCIES"

INTRODUCTION

This report, submitted pursuant to 10CFR50.55(e), describes deficiencies that existed in documentation for bolted and welded connections of structural steel supporting or tying into safety related systems. This problem is considered reportable under the requirements of 10CFR50.55(e).

To the best of our knowledge it has not been reported pursuant to 10CFR21.

DESCRIPTION

Ebasco record review and surveillance inspection of the bolting and welding performed by American Bridge revealed insufficient documentation existed to cover the work performed. Structural steel affected was in the Reactor Containment Building (RCB), the Reactor Auxiliary Building (RAB), the Fuel Handling Building (FHB), and the Common Foundation Structure (CFS) of the Waterford SES Unit 3. The deficiencies in American Bridge documentation indicated a breakdown of the Quality Program sufficient to require a complete reinspection of bolted connections and designated welded connections completed by American Bridge in the RCB, RAB, FHB, and CFS. The purpose of the reinspection was to identify those bolted connections requiring rework and to provide information and data to verify the adequacy of the welded connections and to determine the repair of those welded connections found to be deficient.

SAFETY IMPLICATIONS

Some of the documentation missing was for bolted and welded connections of structural steel supporting or tying into safety related systems. If left uncorrected, failure of those connections could have resulted in possible degradation of those safety systems.

CORRECTIVE ACTION TAKEN

Nonconformance Reports (NCRs) were issued to track and document deficiencies as they were identified. A procedure was issued which established the methods for performing and documenting the reinspection of bolted connections and set forth criteria for acceptance or rejection and the measures to be taken for rework. A procedure was also issued which established the methods for performing the reinspection of structural steel welded connections and the documentation of the information and data obtained from the reinspection which was to be forwarded to Ebasco Site Support Engineering (ESSE) for review, analysis, and evaluation.

CORRECTIVE ACTION TAKEN (Continued)

On May 26, 1983, NCR-W3-6263 was issued to consolidate nonconformance reports identifying similar deficiencies. This permitted the deficiencies to be controlled by a single plan of Corrective Action. Those deficiencies not covered by the plan of Corrective Action stated in NCR-W3-6263 were documented and controlled by individual nonconformance reports. All reinspection and corrective action is now complete, including inspection of rework. All connections have been accepted and the supporting documentation has been reviewed.

This report is submitted as the Final Report.