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POWER & LIGHT

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August 6, 1982

G. D. McLendon
Senior Vice President

W3K-82-0497
Q-3-A35.07.60

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

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Interim Report of Significant Construction Deficiency No. 60
"Turnover Documentation and Inadequate Hanger Weld Problems"

Reference: Telecon - R. Bennett (LP&L) to L. Martin (NRC) on July 19, 1982

Dear Mr. Collins:

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Interim Report of Significant Construction Deficiency No. 60, "Turnover Documentation and Inadequate Hanger Weld Problems."

If you have any questions, please advise.

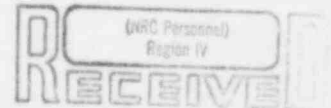
Very truly yours,

G. D. McLendon
G.D. McLendon

GDMcL/LLB/grf

Attachment

- cc: 1) Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
(with 15 copies of report)
- 2) Director
Office of Management
Information and Program Control
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
(with 1 copy of report)



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LOUISIANA POWER & LIGHT COMPANY
WATERFORD STEAM ELECTRIC STATION - UNIT NO. 3

INTERIM REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 60

"TURNOVER DOCUMENTATION AND INADEQUATE HANGER WELD PROBLEMS"

Reviewed by: *R. J. Milhiser* *8/2/82*
R. J. Milhiser - Site Manager Date

Reviewed by: *J. L. Wills* *8/2/82*
J. L. Wills - Project Superintendent Date

Reviewed by: *J. Hart* *8-2-82*
J. Hart - Project Licensing Engineer Date

Reviewed by: *J. DeBruin* *8/2/82*
J. DeBruin - ESSE Project Engineer Date

Reviewed by: *J. Gutierrez* *8-2-82*
J. Gutierrez - Q. A. Site Supervisor Date

July 30, 1982

INTERIM REPORT
OF SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 60
"TURNOVER DOCUMENTATION AND INADEQUATE
HANGER WELD PROBLEMS
TOMPKINS-BECKWITH"

INTRODUCTION:

This report is submitted pursuant to 10CFR50.55(e). It describes Seismic I hangers installed by Tompkins-Beckwith, Inc. which do not comply with design and installation drawings nor with AWS requirements. The hangers were among those inspected and accepted by the Quality Control department of Tompkins-Beckwith and were included in turnover packages for start-up systems released to the Owner. This reflects a breakdown in the Quality Control/Quality Assurance Programs of Tompkins-Beckwith, Inc., Ebasco Services, Inc. and Louisiana Power and Light Company. This condition is considered reportable under the requirements of 10CFR50.55(e). To the best of our knowledge, this problem has not been reported to the Nuclear Regulatory Commission pursuant to 10CFR21.

DESCRIPTION:

Upon receipt of turnover documents for Start-Up System 60B - Low Pressure Safety Injection, Louisiana Power & Light (LP&L) QA performed an audit of documentation for hanger installations contained in the turnover package. LP&L QA identified numerous discrepancies which included: installation that was not in accordance with design documents, welds called for on the design documents/detail drawings that do not meet AWS size requirements, field welds that were not made per requirements between the as-built drawings and actual construction. This condition indicates a breakdown of the Quality Assurance programs of Tompkins-Beckwith, Inc., Piping Contractor, Ebasco Services, Inc. and Louisiana Power & Light Company in that the Tompkins-Beckwith (T-B) turnover packages that were submitted contained discrepancies between the final Quality Assurance/Quality Control certification and the final actual construction.

SAFETY EVALUATION:

The deficiencies from accepted as-built hanger sketches as described herein occur on Seismic Category I systems required to mitigate the consequences of an accident and bring the plant to a safe shutdown condition. Until the extent of the deficiencies are known, it must be assumed that they could detract from the ability of these systems to perform their function under SSE conditions.

CORRECTIVE ACTION

Corrective Action has been implemented as follows:

- (1) T-B has completed a retraining program with particular emphasis on as-built records for all Hanger Engineering personnel and Quality Control inspectors to requalify them to properly perform the field inspections of pipe support/restraint and to complete the necessary documentation.
- (2) T-B Quality Control and Engineering have initiated a reinspection of approximately 4400 hangers which were completed and accepted prior to July 6, 1982. NCR W3-4010 will be supplemented to track the disposition and corrective action taken for hangers found to have deviations from design requirements which were completed and accepted prior to July 6, 1982. Any rework required will be noted on NCR W3-4010 which shall then be returned to T-B for their action.
- (3) Presently specified fillet weld sizes meet structural design requirements. However, in order to verify the adequacy of the specified weld size, T-B shall qualify existing prequalified AWS fillet weld procedures to verify the acceptability of performing multipass fillet welds using small diameter electrodes. These qualified procedures will verify the acceptability of specifying and welding fillet weld sizes smaller than AWS allowables.
- (4) A Tompkins-Beckwith Quality Assurance Audit is underway to inspect a sample lot of hangers to verify that the reinspection and future inspections are performed properly.
- (5) Ebasco Services Incorporated has completed a retraining program for Quality Assurance personnel involved in the review of piping hanger documentation.

Corrective action will be completed by February 15, 1983 and a Final Report will be submitted to the NRC at that time.