



**LOUISIANA**  
**POWER & LIGHT**

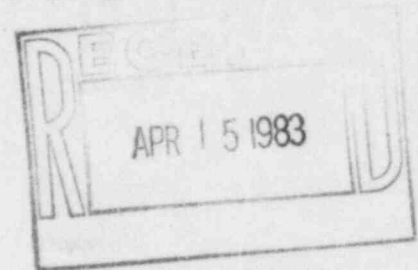
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April 8, 1983

L. V. MAURIN  
Vice President Nuclear Operations

W3I83-0113  
Q-3-A35.07.74

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  
Significant Construction Deficiency No. 74  
"Tompkins-Beckwith Undersize Schedule 80 Socket Welds"

Reference: Telecon from M.A. Livesay to J. Boardman on March 8, 1983

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. 74.

If you have any questions, please advise.

*JE-27*

Very truly yours,

L. V. Maurin

LVM/MAL:keh

Attachment

- cc: 1) Director  
Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555
- 2) Director  
Office of Management  
Information and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555
- 3) Mr. E. L. Blake
- 4) Mr. W. M. Stevenson

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INTERIM REPORT OF  
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 74

"T&B UNDERSIZE SCHEDULE 80 SOCKET WELDS"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a deficiency in the fillet weld size of schedule 80 small bore piping welds in ASME Class 2 and 3 piping systems. The ASME Section III fillet weld dimensions were not complied with in all welds. This problem is considered reportable under the requirements of 10CFR50.55(e).

To the best of our knowledge, this problem has not been identified to the Nuclear Regulatory Commission pursuant to 10CFR21.

DESCRIPTION

Tompkins-Beckwith, Inc., through issuance of Nonconformance Report W3-5760, identified that fillet welds made on small bore schedule 80 piping did not meet the size requirements of ASME Section III. This Nonconformance Report indicated that fifty-four (54) welds out of four hundred and fifty (450) welds inspected were undersized. The welds inspected were in various ASME Section III Class 2 and 3 systems. The fifty-four (54) undersize welds were identified to be in the Component Cooling Water System.

SAFETY IMPLICATIONS

The potential failure of the welds and the corresponding impact on safety-related systems is pending review by Ebasco.

CORRECTIVE ACTION TAKEN

In accordance with the interim disposition of the Nonconformance Report, the piping contractor, Tompkins-Beckwith is to perform additional sample weld inspections of both schedule 80 and schedule 40 small bore piping welds.

The original fifty-four (54) undersize welds were evaluated by Ebasco Engineering using ASME Code Case N-316. After this evaluation, it was determined that only seven (7) of the fifty-four (54) were in fact undersized. Five (5) of seven (7) welds were welds between piping and flanges.

Ebasco Applied Physics Engineering is currently performing an analysis to ascertain the structural acceptability of the undersize fillet welds based on Stress Data for theoretical worst case loadings.

Corrective Action will be completed by June 15, 1983 in accordance with Nonconformance Report W3-5760. A final report will be submitted at that time.

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