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POWER & LIGHT

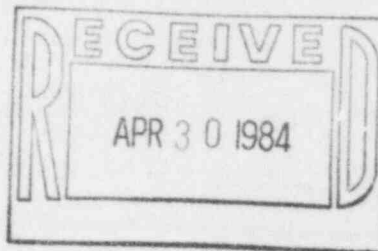
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April 23, 1984

W3K84-0916
Q-3-A35.07.101

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



REFERENCE: LP&L Letter W3K84-0815 dated April 5, 1984

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Significant Construction Deficiency No. 101
"Traceability of Stainless Steel Instrumentation Tubing"
Final Report

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Final Report for Significant Construction Deficiency No. 101, "Traceability of Stainless Steel Instrumentation Tubing".

If you have any questions, please advise.

Very truly yours,

T. F. Gerrets
Corporate Quality Assurance Manager

Attachments

TFG:CNH:SSTG

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

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Mr. John T. Collins

April 23, 1984

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cc: Director
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U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

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FINAL REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 101
"TRACEABILITY OF STAINLESS STEEL (SS) INSTRUMENTATION TUBING"

INTRODUCTION

This report is submitted to 10CFR50.55(e). It describes the possibility that 0.049" stainless steel tubing could have been installed where 0.065" wall S.S. tubing was specified. This possibility exists for both 3/8" and 1/2" S.S. tubing. In addition, 1/4" O.D. S.S. non-safety related tubing may have been installed in safety related systems.

To the best of our knowledge, this deficiency has not been reported to the USNRC pursuant to 10CFR21.

DESCRIPTION

During review of documentation it was discovered that some S.S. tubing with a wall thickness of 0.049" had been received on site. There is concern that it may have been installed where 0.065" wall is required. In addition, this review discovered that some 1/4" O.D. S.S. tubing was purchased as non-safety related and may have been installed in safety related systems.

SAFETY IMPLICATIONS

Based upon the research by Engineering and Quality Assurance that found the tubing installed meets the requirements of design, the deficiency would not have adversely affected the safety of operations throughout the expected lifetime of the nuclear power plant.

CORRECTIVE ACTION

Engineering determined a temperature/pressure guideline for the acceptance of 0.049" wall tubing. A systematic search was performed to identify any tubing subjected to conditions outside the above parameters. Installation documentation packages, for the tubing identified, were reviewed. The tubing for which there was no heat number documented showing where 0.065" wall tubing was installed, was ultrasonically tested to determine the wall thickness. All tubing tested was found to have a wall thickness greater than 0.065".

A review of all safety related tubing installation packages identified twenty-three packages for which no material traceability was found for the 1/4" tubing. A review by Engineering of the identified packages found the 1/4" tubing in those packages fell under the exclusion allowed by DCN-IC-232 R1. This exclusion was for class breaks at valve manifolds and specific instruments listed in the DCN. All 1/4" tubing was found to be acceptable.

This report is submitted as a Final Report.