

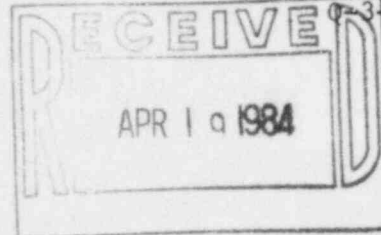


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April 12, 1984

W3K84-0846
0-3-A35.07.104



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

REFERENCE: Telecon C. Hooper (LP&L) and W. Crossman (NRC, Region IV) on
March 1, 1984
Telecon C. Hooper (LP&L) and R. G. Taylor (NRC, Region IV) on
March 30, 1984

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Significant Construction Deficiency No. 104
"Wiring Errors Discovered During Preoperational Testing (ESFAS)"
Final Report

In accordance with the requirement of 10CFR50.55(e), we are hereby providing two copies of the Final Report of Significant Construction Deficiency No. 104, "Wiring Errors Discovered During Preoperational Testing (ESFAS)". This deficiency was previously reported on PRD No. 158.

If you have any questions, please advise.

Very truly yours,

T. F. Gerrets
Corporate Quality Assurance Manager

TFG:CNH:SSTG

Enclosure

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

Aprkl 12, 1984

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cc: Director
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Washington, D.C. 20555

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FINAL REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 104
"WIRING ERRORS DISCOVERED DURING PREOPERATIONAL TESTING (ESFAS)"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes several cases of improperly terminated cables discovered during ESFAS preoperational testing at Waterford SES Unit No. 3.

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

DESCRIPTION

During performance of the Engineered Safety Features Actuation System (ESFAS) preoperational testing (SPO-63-002) at Waterford SES Unit No. 3, the Startup Test Engineer noted that terminations for field cables were not consistent with the approved control wiring diagrams. During a subsequent review of the completed test procedure, the Joint Test Group (JTG) formally identified the engineer had been required to modify field installations in order for equipment to operate properly. The root cause of the improperly wired circuitry appears to have been inadequate controls over initial wiring installations or in subsequent design changes.

SAFETY IMPLICATIONS

The improperly terminated cables for the equipment and components identified would have prevented their proper operation upon receipt of an emergency actuation signal. Therefore, if left uncorrected, the safe operation of the plant would be adversely affected.

CORRECTIVE ACTION TAKEN

All identified wiring errors were corrected in accordance with approved administrative procedures and retested. All retests were conducted satisfactorily. To assess generic implications, two other major tests were reviewed, SPO-66-001, "Plant Protection" and SIT-TP-200, "Integrated Engineered Safety Features". The generic review indicated similar but fewer examples of wiring errors. These errors were also corrected utilizing in-place administrative controls and retesting was conducted satisfactorily. Based upon these reviews and our comprehensive testing program, LP&L feels confident that all wiring errors have been identified, corrected, and tested. Increased administrative controls applied since mid 1983 should prevent any future occurrences of wiring errors.

This report is submitted as the Final Report.