

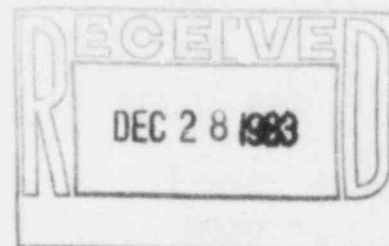


**LOUISIANA  
POWER & LIGHT**

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December 20, 1983

W3K83-2003  
Q-3-A35.07.81



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 W3K83-1978 dated December 15, 1983

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3  
Docket No. 50-382  
Significant Construction Deficiency No. 81  
"Shelf Life Exceeded on Cable Splice and Termination Tape"  
Final Report

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Final Report of Significant Construction Deficiency No. 81, "Shelf Life Exceeded on Cable Splice and Termination Tape."

If you have any questions, please advise.

Very truly yours,

T. F. Gerrets  
Quality Assurance Manager

TFG:CNH:VBR

Attachment

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

FINAL REPORT OF SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 81  
"SHELF LIFE EXCEEDED ON CABLE SPLICE & TERMINATION TAPE"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a deficiency in splices and terminations made on power and control cables utilizing Okonite #35, T-95 tapes, and "Nuclear Splice Cement". The 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 OF PROBLEM

Shipments of Okonite #35, T-95 tapes, and "Nuclear Splice Cement" were received at Waterford #3 between March, 1979 and December, 1980. Okonite has stated that the #35 tape has a shelf life of two years, T-95 tape has a shelf life of one year, and the splice cement has a shelf life of one year. Splices and terminations have been made with these tapes from the receipt dates through May, 1983, in some cases exceeding the maximum shelf life. No controls existed to prevent the use of tape or cement which had exceeded the maximum vendor recommended shelf life.

SAFETY IMPLICATIONS

Failure of the tape and/or cement could cause the affected splice(s) to open and/or short circuit, thus rendering safety system(s) inoperable.

CORRECTIVE ACTION

NCR-W3-6095 was initiated to track and document this deficiency.

Samples of medium and low voltage terminations and splices made with Okonite #35, T-95 and electrical cement from the oldest shipment on-site, were returned to the vendors' lab for dielectric testing. The test results indicated that the use of tape and cement which had exceeded the vendors' recommended shelf life will not impair the electrical performance of said terminations and splices.

All presently warehoused Okonite tape and cement at Waterford #3 that is past the shelf life expiration date, recommended by the manufacturer, has been tagged for disposal.

"Material Receiving, Warehousing and Control" procedure ASP-IV-10 has been amended (Amendment No. 2, Issue "EE") to require that the shelf life be posted on each storage location.

The Okonite test report and all other supporting documentation has been verified.

This report is submitted as the Final Report.