

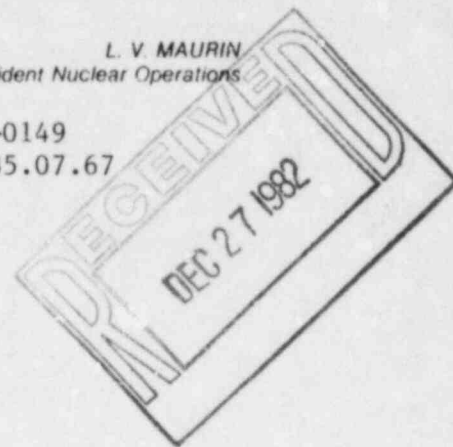
**LOUISIANA  
POWER & LIGHT**

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December 20, 1982

L. V. MAURIN  
Vice President Nuclear Operations

W3I82-0149  
Q-3-A35.07.67



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  
Final Report of Significant Construction Deficiency No. 67  
"Failure of A500 Grade "B" Tube Steel To Meet  
Chemical/Physical Properties"

REFERENCE: LP&L Letter W3I82-0113 dated November 23, 1982

Dear Mr. Collins:

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Final Report of Significant Construction Deficiency No. 67, "Failure of A500 Grade "B" Tube Steel to Meet Chemical/Physical Properties."

Very truly yours,

L. V. Maurin

LVM/MAL:keh

cc: 1) Director  
Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555  
(with 15 copies of report)

3) E. Blake

2) Director  
Office of Management  
Information and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555  
(with 1 copy of report)

4) W. Stevenson

IE-27

FINAL REPORT OF  
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 67  
"FAILURE OF A500 GRADE "B" TUBE STEEL TO MEET CHEMICAL/PHYSICAL PROPERTIES"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes deficiencies in the tube steel used in the fabrication of hanger supports in the chilled water, component cooling and blowdown systems. 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

In May, 1982 Ebasco received one (1) piece of 40' x 4" x 4" x  $\frac{1}{2}$ " square structural tubing ASTM A500 76 Grade "B", heat number 803L75350 (Mfg. Regal Tube) from Pressure Vessel Nuclear Steels, Inc. along with certification papers which were acceptable to ASTM A500 specifications. On October 20, 1982, Ebasco received a telex from Pressure Vessel Nuclear Steels, Inc. stating: "It has been determined that this one piece of ASTM A500 tube steel has low elongation problem." Prior to October 20, 1982, Ebasco had furnished this tubing to Tompkins-Beckwith (Mech. Contractor) for use as hanger supports. Tompkins-Beckwith, since then, has used this tubing to fabricate seven (7) hangers which are installed in Seismic I Installations. Presently, all tubing has been identified and placed on hold. We are now in receipt of physical properties data from Pressure Vessel Nuclear Steels Incorporated which indicates that for heat no. 803L75350 the elongation properties are below the ASME/ASTM code requirements. However, the yield strength is still within code allowables. Engineering has determined that the lower elongation properties do not impact design. The reduced elongation properties affects the behavior of the material in the plastic range. The allowable stresses used in design are well within the elastic limit of the material.

SAFETY IMPLICATIONS

Based on the above, there is no degradation of safety related systems where A500 steel is used for structural supports. Therefore, the safe shutdown of the plant is not affected.

CORRECTIVE ACTION

NCR-W3-4827 has been initiated to track and document corrective action as dispositioned.

This report is submitted as the Final Report.