

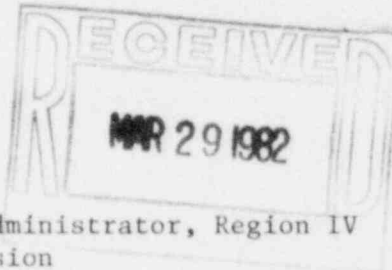


**LOUISIANA**  
POWER & LIGHT

142 DELARONDE STREET  
P. O. BOX 6008 • NEW ORLEANS, LOUISIANA 70174 • (504) 366-2345

March 26, 1982

G. D. McLENDON  
Senior Vice President



W3K82-0175  
Q-3-A35



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  
Interim Report of Significant Construction Deficiency No. 48  
"Design Application of Break Flanges at Elevated Temperatures"

Reference: Telecon - L. L. Bass (LP&L) to L. Martin (NRC) dated 2/24/82

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. 48, "Design Application of Break Flanges at Elevated Temperatures."

If you have any questions, please advise.

Very truly yours,

GDMcL/LLB/ncd

Attachment

- cc: 1) Director  
Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555  
(with 15 copies of report)
- 2) Director  
Office of Management  
Information and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555  
(with 1 copy of report)

IE-27

S/1/11

LOUISIANA POWER & LIGHT COMPANY

WATERFORD SES UNIT NO. 3

Interim Report of  
Significant Construction Deficiency No. 48

Design Application of Break Flanges at Elevated Temperatures

Reviewed by *R. J. Milbriser* 3/22/82  
R. J. Milbriser - Site Manager Date

Reviewed by *F. L. Wills* 3/22/82  
F. L. Wills - Project Superintendent Date

Reviewed by *Cappy Lawrence for Greg Hodges* 3/22/82  
J. Hart - Project Licensing Engineer *Open telecom* Date

Reviewed by *John DeBruin* 3/22/82  
J. DeBruin - ESSE Project Engineer Date

Reviewed by *J. Gutierrez* 3-22-82  
J. Gutierrez - Q. A. Site Supervisor Date

March 22, 1982

INTERIM REPORT OF  
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 48  
"DESIGN APPLICATION OF BREAK FLANGES AT ELEVATED TEMPERATURES"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a defect with the Reactor Coolant (RC), Safety Injection (SI), and Chemical and Volume Control (CH) system flanges. The flange material that had been specified was not the material used in making the flanges. 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

Class 1500 and Class 900 Type 304 flanges have been installed in systems where the maximum operating conditions exceed the pressure-temperature ratings of the installed flanges. There are forty-eight (48) flanges which do not meet ASME code requirements.

Examination of the Station Piping Specification and the Waterford 3 Piping Line List indicated the correct flanges were specified in these documents for large bore isometrics. The error was introduced in the preparation of the isometric drawings. A material conflict between the design drawings and the piping line list was noted on the small bore piping. These documents were utilized to develop the small bore piping isometrics.

Under operating conditions approaching the design conditions, the stress level experienced by the flanges may reach a high enough value to cause distortion, resulting in leakage or malfunction of the joint.

SAFETY IMPLICATIONS

The subject flanges are located in the Reactor Coolant, Safety Injection, and Chemical and Volume Control systems. Failure of these flanges could cause a small LOCA, or degrade operation or render inoperable a safety system. Therefore, this deviation adversely affects the safety of the plant if left uncorrected.

CORRECTIVE ACTION

All affected flanges shall have material replacements made in order to satisfy joint pressure-temperature requirements. Nonconformance Report W3-3302 S/1 has been issued to identify and track this work. The corrective action shall be completed and a Final Report submitted to the USNRC by September 30, 1982.