



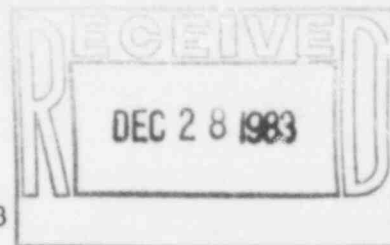
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December 21, 1983

W3K83-1977  
Q-3-A35.07.77

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 W3K83-1553 dated October 13, 1983

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3  
Docket No. 50-382  
Significant Construction Deficiency No. 77  
"Inadequate Containment Purge Valves Closure Time and Flow Rates"  
Final Report

In accordance with the requirements of 10 CFR 50.55(e), we are hereby providing two copies of the Final Report of Significant Construction Deficiency No. 77, "Inadequate Containment Purge Valves Closure Time and Flow Rates".

If you have any questions, please advise.

Very truly yours,

*T. F. Gerrets*  
T. F. Gerrets  
Quality Assurance Manager

TFG:CNH:SSTG

Attachment

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  
December 21, 1983  
W3K83-1977  
Page 2

cc: Director  
Office of Management  
Information and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. E. L. Blake  
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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. 77  
"INADEQUATE CONTAINMENT PURGE VALVES CLOSURE TIME AND FLOW RATE"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a problem with the closure time of the Containment Purge and Vent Valves encountered during the prerequisite phase of testing. The Containment Purge and Vent Valves exceeded the maximum closure time required by design. This problem is considered reportable under the requirements of 10CFR50.55(e).

The first interim report also described the failure of the valves to meet the design flow rate. It has since been determined that this condition does not represent a safety concern and it has therefore been deleted from this response.

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

DESCRIPTION

During prerequisite testing of the 48 inch Containment Purge and Vent Valves (Tag Numbers 2HV-B150 through 2HV-B155), it was noted that the valve closure time had varied between 11 and 18 seconds. This exceeds the design closure time of 5 seconds maximum. This deviation is attributed to the installation of one (1) solenoid valve instead of two (2) as originally required per the vendor's design.

SAFETY IMPLICATIONS

The post accident offsite radiological dose calculations and the 10CFR50, Appendix K ECCS analysis were based on the Containment Purge Valves closing within their design closure time. Failure to do so could therefore invalidate these results and require reanalysis.

CORRECTIVE ACTION TAKEN

Nonconformance Report W3-5923 and W3-6059 were initiated to track and document corrective action, and the following corrective action has been performed:

- 1) A second solenoid valve was added to each containment purge and vent valve.
- 2) The air connections to the solenoid valves were enlarged.

With the above modifications, a valve closure time of less than or equal to 5 seconds was achieved on each of the subject valves.

This report is submitted as the Final Report.