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POWER & LIGHT

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August 2, 1982

G. D. McLendon
Senior Vice President

W3K-82-0473
Q-3-A35.07.26

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. 26
"Main Feedwater Isolation Valves - Temperature Maintenance of Actuators"

Reference: LP&L Letter to USNRC W3K-82-0355 dated June 17, 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. 26, "Main Feedwater Isolation Valves - Temperature Maintenance of Actuators."

If you have any questions, please advise.

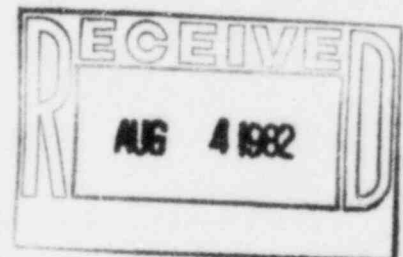
Very truly yours,

Thomas F. Gerrits for
G. D. McLendon

GDMcL/LLB/grf

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

LOUISIANA POWER & LIGHT COMPANY

WATERFORD SES UNIT NO. 3

Final Report of
Significant Construction Deficiency No. 26

"MAIN FEEDWATER ISOLATION VALVES -- TEMPERATURE MAINTENANCE OF ACTUATORS"

Reviewed by *R. J. Milhiser* 7/24/82
R. J. Milhiser - Site Manager Date

Reviewed by *J. L. Wills* 7/29/82
J. L. Wills - Project Superintendent Date

Reviewed by *J. L. Lutiens* 7-29-82
J. L. Lutiens - Project Licensing Engineer Date

Reviewed by *W. Yaeger* 7/29/82
W. Yaeger - Sr. Resident Engineer Date

Reviewed by *J. Lutiens* 7-29-82
J. Gutierrez - Q. A. Site Supervisor Date

July 29, 1982

FINAL REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 26
"MAIN FEEDWATER ISOLATION VALVES - TEMPERATURE MAINTENANCE OF ACTUATORS"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes deficiencies in the Main Feedwater Isolation Valve Actuators relative to the closure of the Main Feedwater Isolation Valves within a specified time from receipt of the Main Steam Isolation Signal. This problem is considered reportable and to the best of our knowledge, this problem has not been identified to the Nuclear Regulatory Commission pursuant to 10CFR21.

DESCRIPTION

The Ebasco Assistant Chief Mechanical Nuclear Engineer was informed of this deficiency by Anchor Darling Valve Company via telex dated February 24, 1981, at which time it was indicated that the Feedwater Isolation Valves will not meet the specification closing speed requirement in ambient temperatures below 65°F and may not close at all in extremely cold temperatures. It was further identified that this poses a serious design deficiency that may jeopardize the safe operation of the plant and must be corrected. The valves affected are 2FW-V824B and 2FW-V823A which are 20-inch motor-operated gate valves, Nuclear Safety Class 2.

SAFETY IMPLICATIONS

The Waterford 3 Main Feedwater Isolation Valves are externally located and therefore exposed to the ambient environment. The Main Steam Line Break analyses, as described in FSAR Sections 6.2.1.1.3 and 15.1.3 assume closure of the Main Feedwater Isolation Valves in a specified time from receipt of the Main Steam Isolation Signal. Failure of these valves to close due to cold ambient temperature in the specified time period could invalidate the results of these analyses.

CORRECTIVE ACTION

Corrective action has been completed for the protection of the Feedwater Isolation Valve Actuators as follows for Valves 2FW-V824B and 2FW-V823A. FCR-E-2654 was issued to cut and modify the protective shrouds, FCR-E-2471 was issued for the installation of the heaters and thermostats, and DCN-E-684 was issued to provide instructions for installation of the heater switch. In our referenced letter, we reported two nonconforming conditions resulted during the rework. These conditions were reported on Nonconformance Reports W3-3872 and W3-3843. The corrective action required by these Nonconformance Reports has been completed, and the Nonconformance Reports are closed. CIWA 822574 has also been closed.

Corrective action taken to preclude recurrence is as follows. DCN-E-684, FCR-E-2654, and FCR-E-2471 were issued to incorporate design changes which will preclude the problem reported by Significant Construction Deficiency No. 26 from recurring.

Full corrective action was achieved on July 28, 1982.