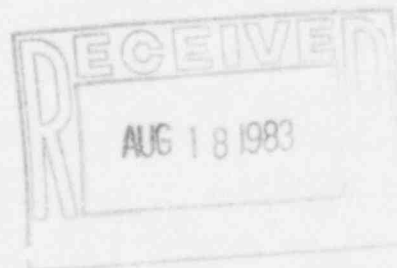


The Light company

Houston Lighting & Power P.O. Box 1700 Houston, Texas 77001 (713) 228-9211

August 15, 1983
ST-HL-AE-989
File Number: G12.153

Mr. John T. Collins
Regional Administrator, Region IV
Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011



Dear Mr. Collins:

South Texas Project
Units 1 & 2
Docket Nos. STN 50-498, STN 50-499
Final Report Concerning Instrumentation Associated
with the Essential Cooling Water Pumps

On July 18, 1983, pursuant to 10CFR50.55(e), Houston Lighting & Power Company (HL&P) notified your office of an item concerning instrumentation associated with the Essential Cooling Water (ECW) System pumps. Attached is the Final Report which identifies the corrective actions to be implemented.

If you should have any questions concerning this item, please contact Mr. Michael E. Powell at (713) 877-3281.

Very truly yours,

A handwritten signature in cursive script, appearing to read "G. W. Oprea, Jr.".

G. W. Oprea, Jr.
Executive Vice President

MEP/mg
Attachment

8308230083 830815
PDR ADOCK 05000498
S PDR

JE-27 //

Houston Lighting & Power Company

August 15, 1983

cc: G. W. Oprea, Jr.

ST-HL-AE-989

J. H. Goldberg

File Number: G12.153

J. G. Dewease

Page 2

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Nuclear Regulatory Commission

Washington, D. C. 20555

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Washington, D. C. 20555

Revision Date 07-05-83

August 15, 1983

Attachment
ST-HL-AE-989

South Texas Project
Units 1 & 2
Docket Nos. STN 50-498, STN 50-499
Final Report Concerning Instrumentation Associated
with the Essential Cooling Water Pumps

I. Summary

The potential exists for a common mode failure to trip all of the Essential Cooling Water (ECW) System pumps. The ECW pumps cannot be re-started unless a Safety Injection (SI) signal is initiated. This item will be corrected by eliminating the potential for common mode failure.

II. Description of the Deficiency

On July 18, 1983 pursuant to 10CFR50.55(e), Houston Lighting & Power Company (HL&P) notified your office of an item concerning instrumentation associated with the ECW system pumps. The potential exists that under a loss of offsite power or loss of instrument air, this will cause the level switches in each ECW pump cubicle well to generate a false low water level signal. This signal, in turn, will trip all of the ECW pumps. The ECW pumps cannot be re-started unless a SI signal is initiated. This is considered to represent a common mode failure.

The primary function of the level instrumentation is for pump protection and the level instrumentation is nonsafety-related.

III. Corrective Action

The corrective action will be to delete the automatic pump trip function for the low-level ECW pump cubicle well instrumentation. Annunciation in the control room will still exist.

IV. Recurrence Control

This design was a previous Brown & Root, Inc. (B&R) design. Bechtel uses established procedures for design interface control, design verification and the requirement for failure modes and effects analyses of safety-related systems. Implementation of these procedures will provide the appropriate recurrence control.

V. Safety Analysis

The potential for a common mode failure is considered to represent a challenge to the ECW system such that it could adversely affect the safe operation of the plant.