

# The Light company

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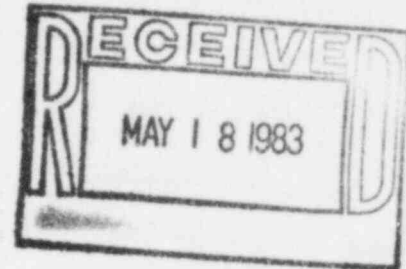
May 18, 1983

ST-HL-AE-959

File Number: G12.145

Mr. John T. Collins  
Regional Administrator, Region IV  
Nuclear Regulatory Commission  
611 Ryan Plaza Dr., Suite 1000  
Arlington, Texas 76012

Dear Mr. Collins:



South Texas Project  
Units 1 & 2  
Docket Nos. STN 50-498, STN 50-499  
Final Report Concerning the  
Westinghouse Reactor Trip Switchgear

On April 22, 1983, pursuant to 10CFR50.55(e), Houston Lighting & Power Company (HL&P) notified your office of an item concerning the Westinghouse Reactor Trip Switchgear. Attached is the Final Report which identifies the corrective actions to be implemented.

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

Very truly yours,

A handwritten signature in dark ink, appearing to read "G. W. Oprea, Jr.".

G. W. Oprea, Jr.  
Executive Vice President

MAM/kr

Attachment

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Revision Date 04-29-83

## Final Report Concerning the Westinghouse Reactor Trip Switchgear

### I. Summary

Westinghouse Electric Corporation advised Houston Lighting & Power Company (HL&P) on April 21, 1983 that they had determined that a deficiency existed in the design of the reactor trip switchgear undervoltage attachments. Westinghouse further stated they had informed the Nuclear Regulatory Commission that this condition existed in equipment delivered to the South Texas Project, among others, and had reported this condition pursuant to 10CFR21. The undervoltage attachments on the STP reactor trip switchgear will be replaced.

### II. Description of the Deficiency

Westinghouse has identified a manufacturing discrepancy relative to undervoltage attachments on DS-416 reactor trip switchgear supplied for their Nuclear Steam Supply Systems. The Westinghouse evaluation of the discrepancy concluded that deviations from recommended clearances could increase the potential for misoperation of the undervoltage attachment. Additionally, Westinghouse identified a deficiency in design related to the undersizing of grooves in the pivot shafts for the undervoltage attachments. Therefore, retaining rings which maintain the pivot shaft in proper position may not seat properly. As a consequence, the pivot shafts may become misaligned with the guide holes in the frame of the undervoltage attachment and not allow the attachment to function properly on demand. (See attached figure).

### III. Corrective Action

Westinghouse has advised HL&P that it intends to replace the existing undervoltage attachments for STP with newly designed and manufactured components. Bechtel Home Office Engineering has instructed the field to initiate a Nonconformance Report to identify the deficient hardware and prevent it from being placed in service prior to the completion of required modifications. The switchgear undervoltage attachments will be replaced on a schedule commensurate with the project schedule.

### IV. Recurrence Control

In correspondence with HL&P, Westinghouse indicated their manufacturing drawings and quality control procedures will be modified to assure that critical design dimensions are maintained during manufacture.

### V. Safety Analysis

Westinghouse has indicated that this condition could have potentially prevented the reactor trip switchgear from opening on automatic demand from the reactor protection system. This is considered to represent a safety hazard requiring the corrective action reported above to preclude unacceptable consequences. Therefore, HL&P considers this condition to be reportable pursuant to 10CFR50.55(e) and, based upon information from Westinghouse, also reportable pursuant to 10CFR21.

attachment 1.

## DS-416 Undervoltage Attachment

