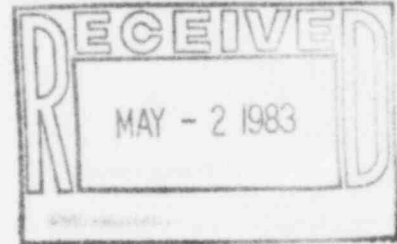


# The Light company

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

April 27, 1983  
ST-HL-AE-951  
File No.: G12.122

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 Motor Operator  
Weights for Valves

IE-27

On June 29, 1982, pursuant to 10CFR50.55(e), Houston Lighting & Power Company (HL&P) notified your office of an item concerning incorrect weights for motor operators used in stress analyses performed on valves supplied by the Anchor Darling Valve Company. Attached is the final report concerning this item.

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 that reads "G. W. Oprea, Jr." followed by a long, sweeping horizontal line.

G. W. Oprea, Jr.  
Executive Vice President

MEP/kr

Attachment

8305060456 830427  
PDR ADOCK 05000498  
S PDR

Houston Lighting & Power Company

April 27, 1983

ST-HL-AE-951

File Number: G12.122

Page 2

cc: G. W. Oprea, Jr.

J. H. Goldberg

J. G. Dewease

J. D. Parsons

D. G. Barker

M. R. Wisenburg

R. A. Frazar

J. W. Williams

R. J. Maroni

J. E. Geiger

H. A. Walker

S. M. Dew

J. T. Collins (NRC)

H. E. Schierling (NRC)

W. M. Hill, Jr. (NRC)

M. D. Schwarz (Baker & Botts)

R. Gordon Gooch (Baker & Botts)

J. R. Newman (Lowenstein, Newman, Reis, & Axelrad)

STP RMS

Director, Office of Inspection & Enforcement

Nuclear Regulatory Commission

Washington, D. C. 20555

G. W. Muench/R. L. Range  
Central Power & Light Company  
P. O. Box 2121  
Corpus Christi, Texas 78403

Charles Bechhoefer, Esquire  
Chairman, Atomic Safety & Licensing Board  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

H. L. Peterson/G. Pokorny  
City of Austin  
P. O. Box 1088  
Austin, Texas 78767

Dr. James C. Lamb, III  
313 Woodhaven Road  
Chapel Hill, North Carolina 27514

J. B. Poston/A. vonRosenberg  
City Public Service Board  
P. O. Box 1771  
San Antonio, Texas 78296

Mr. Ernest E. Hill  
Lawrence Livermore Laboratory  
University of California  
P. O. Box 808, L-46  
Livermore, California 94550

Brian E. Berwick, Esquire  
Assistant Attorney General  
for the State of Texas  
P. O. Box 12548  
Capitol Station  
Austin, Texas 78711

William S. Jordan, III  
Harmon & Weiss  
1725 I Street, N. W.  
Suite 506  
Washington, D. C. 20006

Lanny Sinkin  
Citizens Concerned About Nuclear Power  
5106 Casa Oro  
San Antonio, Texas 78233

Citizens for Equitable Utilities, Inc.  
c/o Ms. Peggy Buchorn  
Route 1, Box 1684  
Brazoria, Texas 77422

Jay Gutierrez, Esquire  
Hearing Attorney  
Office of the Executive Legal Director  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Revision Date 12-20-82

## Final Report Concerning Motor Operator Weights for Valves

### I. Summary

Thirteen (13) Anchor Darling motor operated valves were identified as having actual weights greater than those specified on the drawings as required by specification 1L529TS0100. It was determined that only three (3) stress packages should be re-analyzed since the stress margin available in those packages was potentially insufficient to compensate for the increase of the valve weights. The valves involved are located in the Component Cooling Water System (valve # CC-392), Main Steam Line (valve # MS-143), and Liquid Waste Processing System (valve # WL-312). These valves perform system isolation and/or containment isolation safety functions. The resolution of this problem is given in Section III of this report.

### II. Description of Deficiency

Refer to the first interim report transmitted to the NRC on July 28, 1982 (ST-HL-AE-857).

### III. Corrective Action

Actual weights of the valves were obtained and stress analysis performed for two of the three valves: CC-392 and WL-312. No physical modifications to the piping system, supports, or valves were found to be necessary. The third valve, MS-143 is located in the Main Steam Isolation Valve Cubicle (MSIVC). A major change in the piping layout in the MSIVC is being made as reported to the NRC October 27, 1982 (ST-HL-AE-896). As a part of this redesign, the stress analysis for MS-143, using the actual weight, will be redone in accordance with the Engineering Intermediate Schedule.

In addition, Bechtel has confirmed with the vendor the actual weights of the two (2) valves referenced in our first interim report which are located in the Fire Protection System and Radioactive Vents and Drain System (ED-064 and FP-756). Bechtel has determined that the actual weights are within the stress margin available for their respective applications. No further corrective action is required for these valves.

### IV. Recurrence Control

A recurrence control program is not required because the events were unique. Further, Bechtel procedures, practices, and policies are now in effect which require confirmation from primary vendors of data utilized in final design calculations.

## V. Safety Analysis

Reanalysis for valves CC-392 and WL-312 using the actual weights showed that the valves are acceptable and an overstress condition in the piping system does not exist. A detailed reanalysis and safety evaluation for valve MS-143 was not performed because reanalysis will be done in conjunction with the MSIVC redesign.