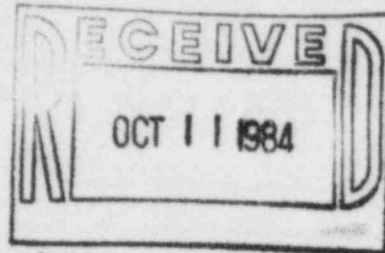


# The Light company

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

October 8, 1984  
ST-HL-AE-1136  
File Number: G12.23

Mr. Robert D. Martin  
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  
Supplemental Information on the Safety Injection  
System Piping Deficiency

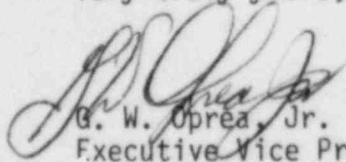
By letter dated June 30, 1982, Houston Lighting & Power Company (HL&P) notified the Nuclear Regulatory Commission that Bechtel was reevaluating the design modifications recommended by our previous architect-engineer for the emergency sump recirculation piping design deficiency which was reported to your office on October 25, 1979 pursuant to 10CFR50.55(e). HL&P committed that if the corrective action recommended by Bechtel was different from that previously recommended, HL&P would notify your office.

Bechtel has finished their evaluation and has modified the design. Figure 1 shows the revised design which will be used on the South Texas Project (STP). This revised design has been incorporated on the STP.

Instead of an expansion joint inside containment, the revised design features a flued head inside containment and eliminates the guard pipe, and anchor outside containment. Figure 2 shows a comparison of the previous designs with the current design.

If you should have any questions concerning this letter, please contact Mr. Michael E. Powell at (713) 993-1328.

Very truly yours,

  
G. W. Oprea, Jr.  
Executive Vice President

MEP/mg  
Attachment

W2/NRC1/a

8410190033 841008  
PDR ADOCK 05000498  
S PDR

IE-2711

cc:

Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Victor Nerses, Project Manager  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, MD 20016

D. P. Tomlinson  
Resident Inspector/South Texas Project  
c/o U.S. Nuclear Regulatory Commission  
P. O. Box 910  
Bay City, TX 77414

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Baker & Botts  
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Houston, TX 77002

J. R. Newman, Esquire  
Newman & Holtzinger, P.C.  
1615 L Street N.W.  
Washington, DC 20036

Director, Office of Inspection  
and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

E. R. Brooks/R. L. Range  
Central Power & Light Company  
P. O. Box 2121  
Corpus Christi, TX 78403

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

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

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

Lanny Sinkin  
Citizens Concerned About Nuclear Power  
114 W. 7th, Suite 220  
Austin, TX 78701

Robert G. Perlis, Esquire  
Hearing Attorney  
Office of the Executive Legal Director  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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

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

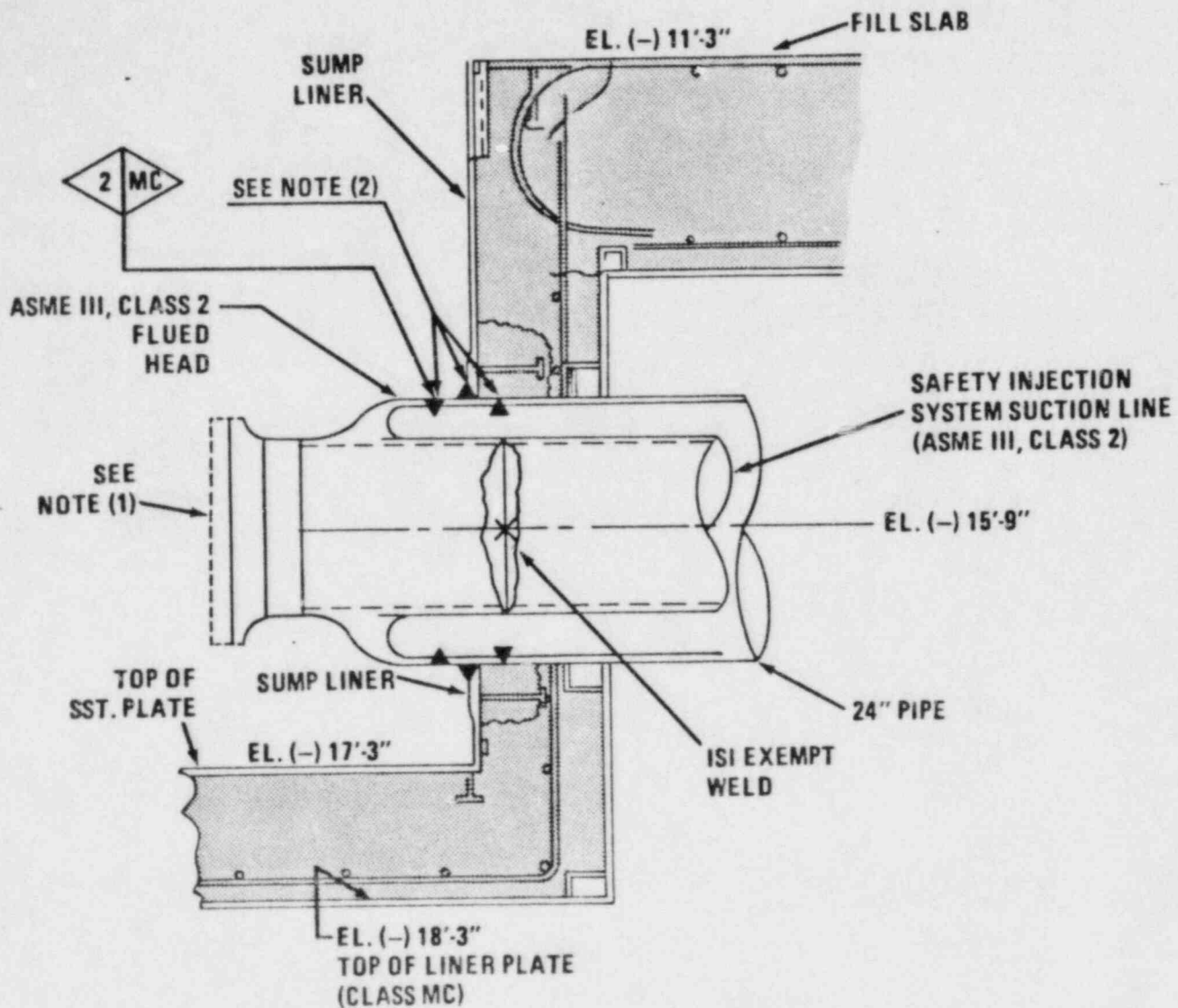
Judge Ernest E. Hill  
Hill Associates  
210 Montego Drive  
Danville, CA 94526

William S. Jordan, III, Esquire  
Harmon, Weiss and Jordan  
2001 S Street, N.W.  
Suite 430  
Washington, DC 20009

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

SOUTH TEXAS PROJECT  
UNITS 1 & 2

SAFETY INJECTION  
SYSTEM SUCTION LINE  
ALTERNATIVE DESIGN

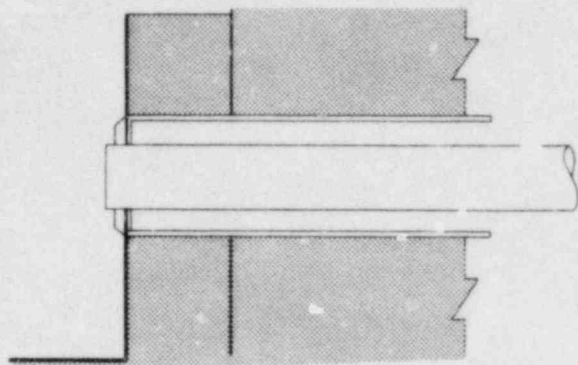


- NOTE (1): BLIND FLANGE USED FOR INTEGRATED LEAK RATE TESTING
- NOTE (2): THE WELD SHALL COMPLY WITH REQUIREMENTS OF ASME SECTION III, DIV. 1, SUBSECTION NE-4430 AND NE-5262

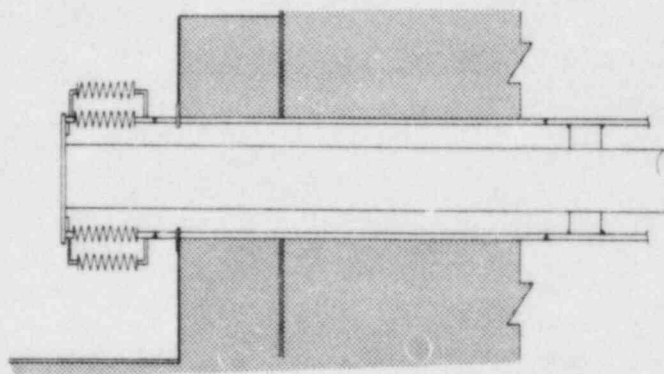
Figure 1

**SOUTH TEXAS PROJECT  
UNITS 1 & 2**

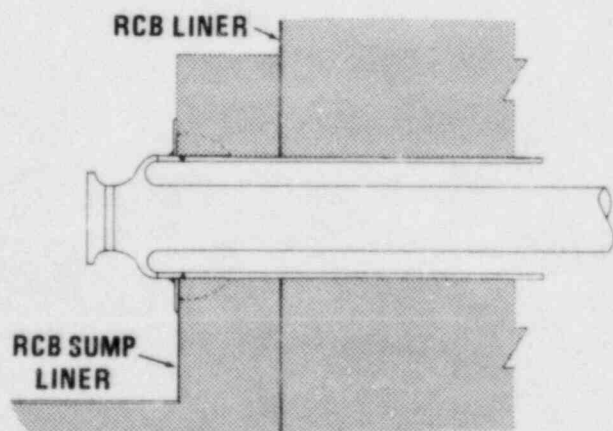
**SAFETY INJECTION  
SYSTEM SUCTION LINE**



**ORIGINAL DESIGN**



**REVISED DESIGN**



**CURRENT DESIGN**

**Figure 2**