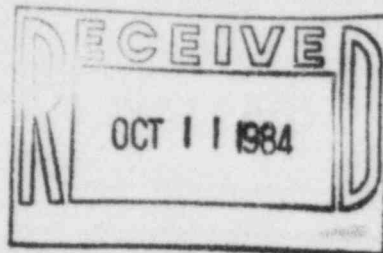


The Light company

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

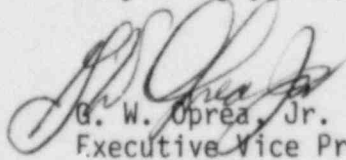
By letter dated June 30, 1982, Houston Lighting & Power Company (HL&P) notified the Nuclear Regulatory Commission that Bechtel was reevaluating the design modifications recommended by our previous architect-engineer for the emergency sump recirculation piping design deficiency which was reported to your 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
One Shell Plaza
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

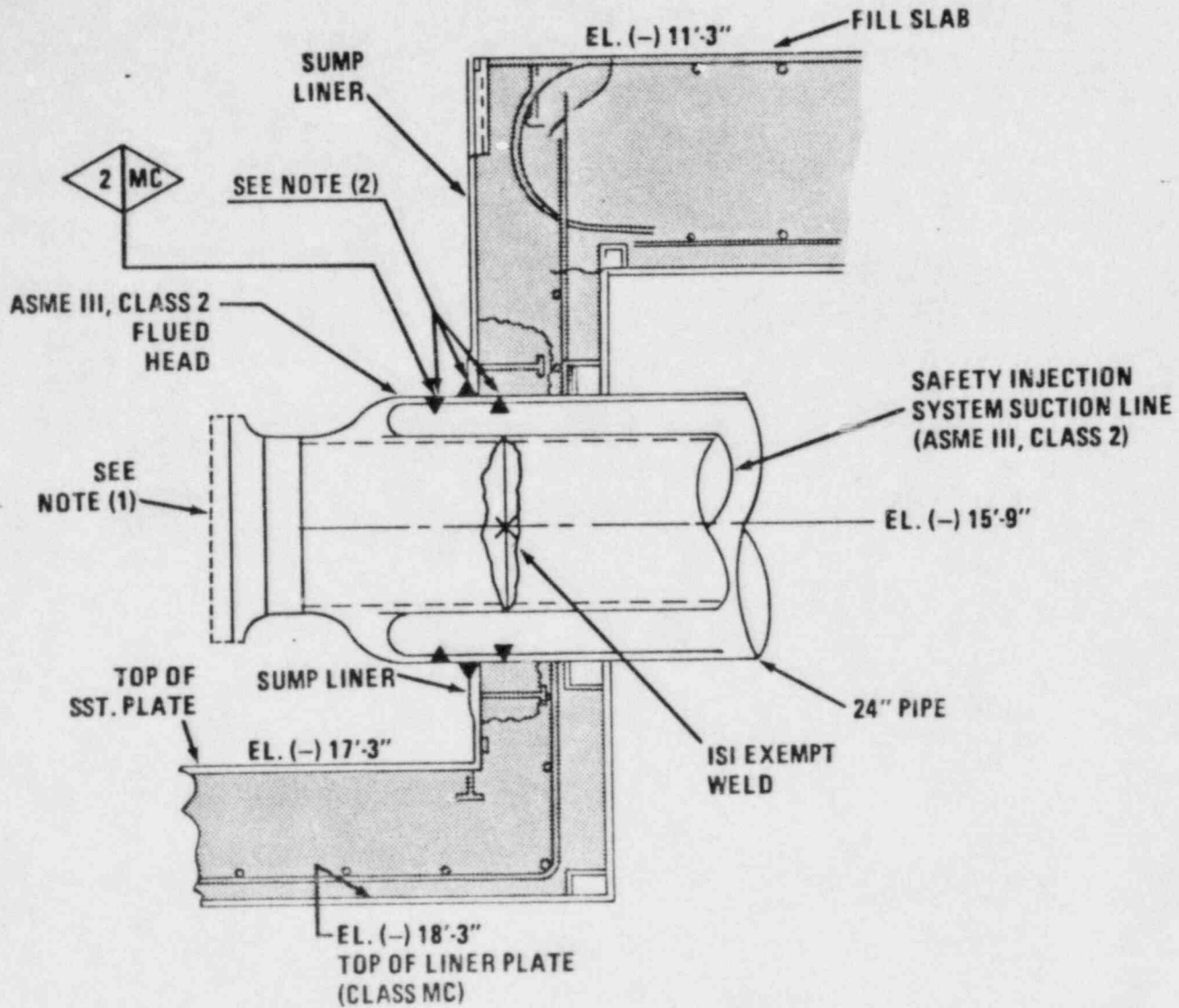
Judge Ernest E. Hill
Hill Associates
210 Montego Drive
Danville, CA 94526

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**



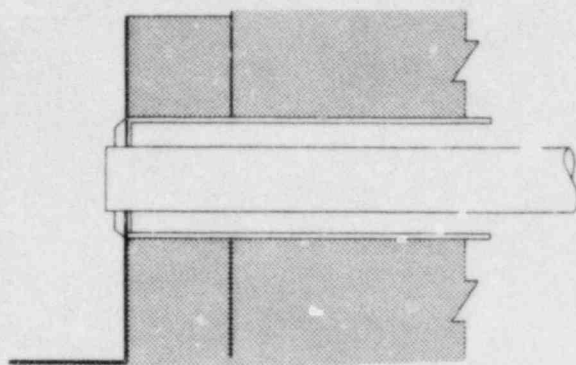
NOTE (1): BLIND FLANGE USED FOR
INTEGRATED LEAK RATE TESTING

NOTE (2): THE WELD SHALL COMPLY WITH
REQUIREMENTS OF ASME SECTION
III, DIV. 1, SUBSECTION NE-4430 AND
NE-5262

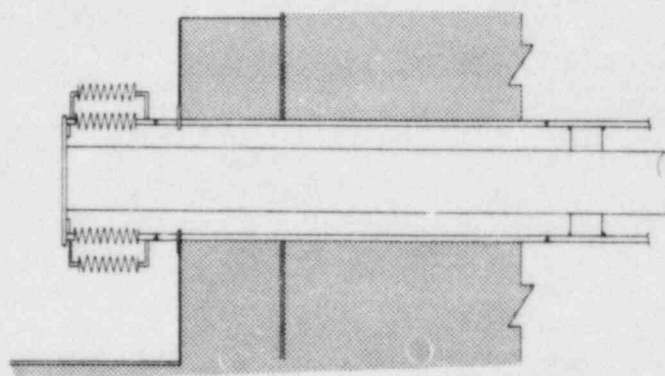
Figure 1

**SOUTH TEXAS PROJECT
UNITS 1 & 2**

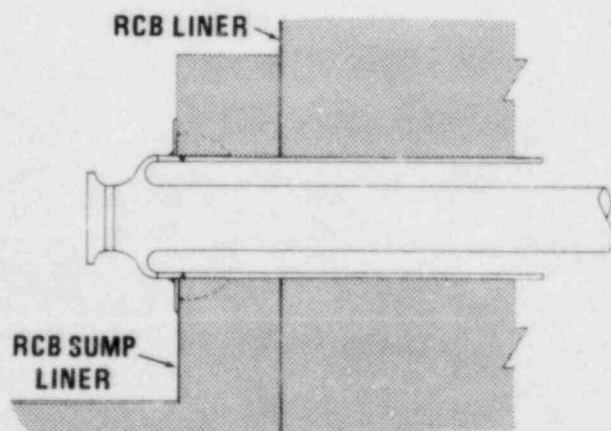
**SAFETY INJECTION
SYSTEM SUCTION LINE**



ORIGINAL DESIGN



REVISED DESIGN



CURRENT DESIGN

Figure 2