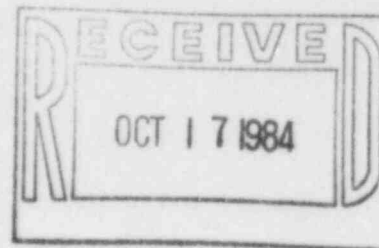


The Light company

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

October 15, 1984
ST-HL-AE-1140
File Number: G12.116

Mr. Robert D. Martin
Regional Administrator, Region IV
Nuclear Regulatory Commission
611 Ryan Plaza Dr., Suite 1000
Arlington, Texas 76012



Dear Mr. Martin:

South Texas Project
Units 1 & 2
Docket Nos. STN 50-498, STN 50-499
Revised Final Report Concerning the Design
of the Residual Heat Removal System

On March 26, 1982, Houston Lighting and Power Company (HL&P), pursuant to 10CFR50.55(e), notified your office of an item concerning the design of the Residual Heat Removal (RHR) System. By letter dated August 30, 1982, HL&P submitted the second interim report concerning this item which provided a description of the safety analysis and identified several alternatives for corrective action which were under review. This review was completed and in the final report submitted by letter dated March 31, 1983, we informed Region IV that the corrective action was to install a jockey pump system to maintain adequate pressure in the system to keep the RHR heat exchanger tubes filled.

The results of a subsequent re-evaluation demonstrated that the use of an atmospheric head tank inside of the Reactor Containment Building (RCB) is a better design solution to this item.

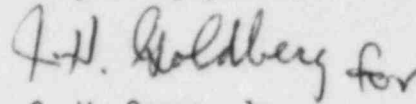
The head tank system will utilize existing Reactor Coolant Pump (RCP) No. 3 Seal Standpipes A, B and C as head tanks to maintain a positive static head on the RHR system and keep the RHR heat exchanger tubes filled. Each RHR train will utilize the corresponding reactor coolant loop's standpipe. A line will be routed from each of the RCP No. 3 Seal Standpipes to the inlet of the RHR heat exchangers. Makeup to the Seal Standpipe will be from the Reactor Makeup Water System. The system is not required for safe shutdown nor is it required to insure the integrity of the Reactor Coolant Pressure Boundary.

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A schematic representation of the revised design is shown in figure 1. A description of this system will be provided in the FSAR.

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

Very truly yours,



G. W. Oprea, Jr.
Executive Vice President

SMH/mg

Attachment: Figure 1 - RHR Head Tank System Configuration

cc:

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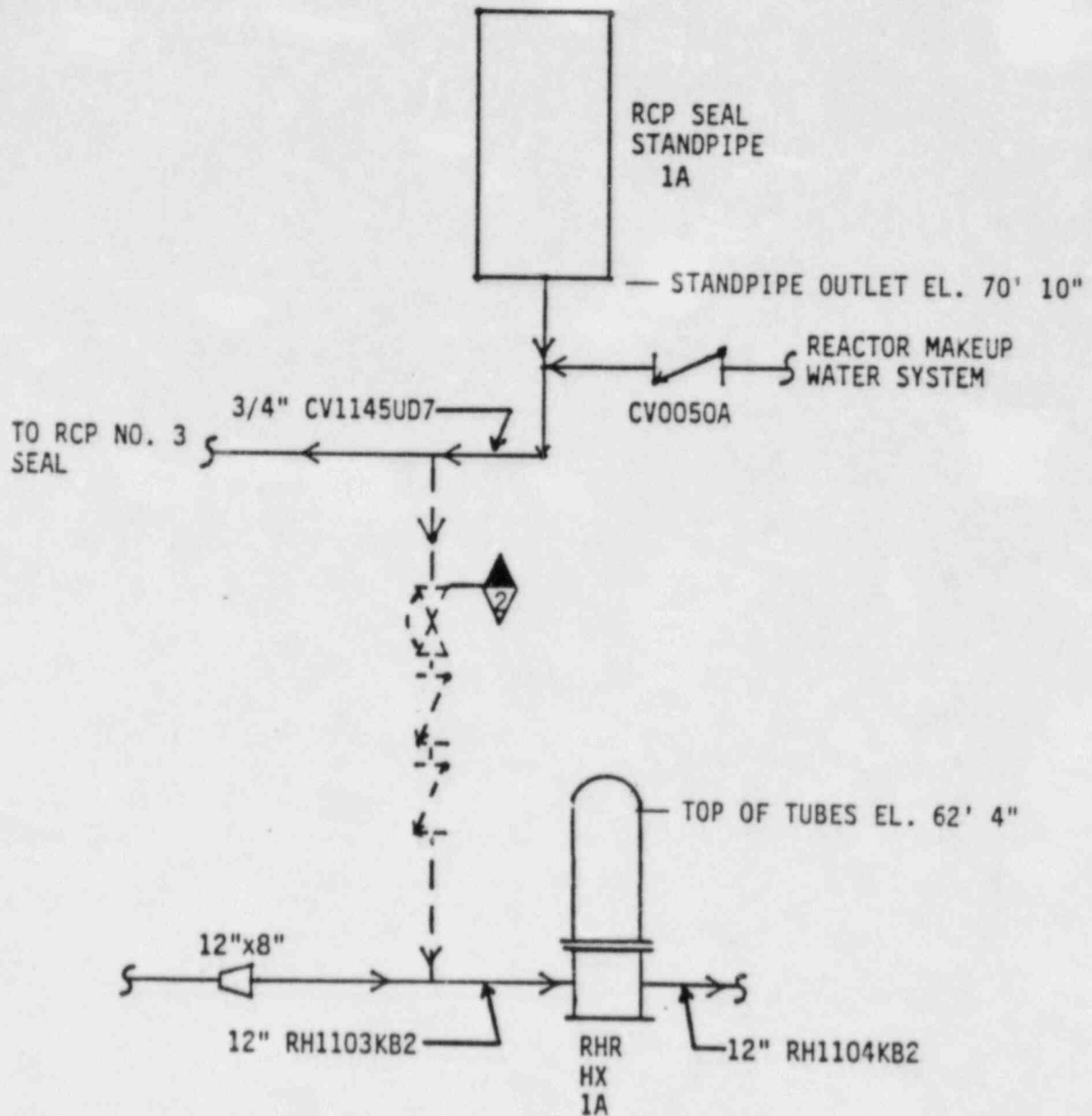
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Citizens for Equitable Utilities, Inc.
c/o Ms. Peggy Buchorn
Route 1, Box 1684
Brazoria, TX 77422

Docketing & Service Section
Office of the Secretary
U.S. Nuclear Regulatory Commission
Washington, DC 20555

FIGURE 1

RHR HEAD TANK SYSTEM CONFIGURATION



NOTES:

1. Configuration typical for the three RHR trains. Existing line and valve numbers shown for train A for clarity.
2. Solid lines denote existing components. Dotted lines denote line and valves to be added.