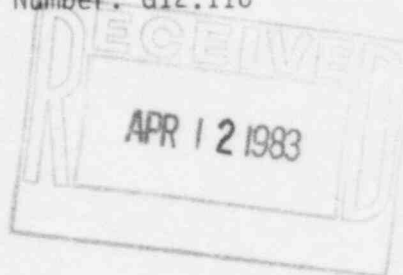


The Light company

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

March 31, 1983
ST-HL-AE-936
File Number: G12.116



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 Design
of the Residual Heat Removal System

Tex.

On March 26, 1982, Houston Lighting & 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 incident, safety analysis and identified several alternatives for corrective actions which were under review. The evaluation of the potential corrective actions has been completed. The recommended corrective action is to install a jockey pump system to maintain adequate pressure in the system to keep the heat exchanger tubes filled.

The jockey pump system will consist of two 100% capacity pumps and associated piping, valves and instrumentation. The system will be common to the three Low Head Safety Injection (LHSI) Subsystems. The system is not required for safe shutdown nor is it required to insure the integrity of the Reactor Coolant Pressure Boundary, therefore, the jockey pump, piping, valves and instrumentation will be non-nuclear safety class with the exception of the isolation valves and piping between the jockey pump system and LHSI subsystems. Additionally, should both pumps be nonoperational, the Seismic Category I, Safety Class 2 LHSI pumps can be used to perform the function of maintaining adequate pressure in the system.

The jockey pumps will be designed and procured with the capability for continuous operation at or near their shutoff head. The pump discharge head will correspond to the pressure required to keep the RHR heat exchanger tubes full.

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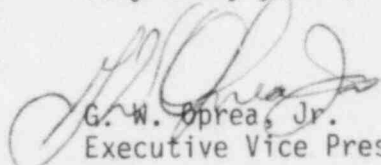
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A positive pressure will be maintained on the RHR heat exchanger and associated piping. A pressure indicator located between the LHSI pump and RHR heat exchanger will monitor the pressure in the system. The system is designed to maintain the required minimum pressure.

Lastly, in regard to recurrence control, a recurrence control program is not considered necessary as this situation is unique. A description of this system will be provided in the FSAR.

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

Very truly yours,


G. W. Oprea, Jr.
Executive Vice President

MEP/mg

Houston Lighting & Power Company

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

H. L. Peterson/G. Pokorny

City of Austin

P. O. Box 1088

Austin, Texas 78767

J. B. Poston/A. vonRosenberg

City Public Service Board

P. O. Box 1771

San Antonio, Texas 78296

Brian E. Berwick, Esquire
Assistant Attorney General

for the State of Texas

P. O. Box 12548

Capitol Station

Austin, Texas 78711

Lanny Sinkin

Citizens Concerned About Nuclear Power

5106 Casa Oro

San Antonio, Texas 78233

Jay Gutierrez, Esquire

Hearing Attorney

Office of the Executive Legal Director

U. S. Nuclear Regulatory Commission

Washington, D. C. 20555

March 31, 1983

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Charles Bechhoefer, Esquire

Chairman, Atomic Safety & Licensing Board

U. S. Nuclear Regulatory Commission

Washington, D. C. 20555

Dr. James C. Lamb, III

313 Woodhaven Road

Chapel Hill, North Carolina 27514

Mr. Ernest E. Hill

Lawrence Livermore Laboratory

University of California

P. O. Box 808, L-46

Livermore, California 94550

William S. Jordan, III

Harmon & Weiss

1725 I Street, N. W.

Suite 506

Washington, D. C. 20006

Citizens for Equitable Utilities, Inc.

c/o Ms. Peggy Buchorn

Route 1, Box 1684

Brazoria, Texas 77422

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