

# The Light company

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

October 30, 1985  
ST-HL-AE-1473  
File No.: G9.17

Mr. George W. Knighton, Chief  
Licensing Branch No. 3  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

South Texas Project  
Units 1 and 2  
Docket Nos. STN 50-498, STN 50-499  
Responses to DSER/FSAR Items  
Regarding HVAC Blowout Panel

Dear Mr. Knighton:

The attachments enclosed provide STP's response to Draft Safety Evaluation Report (DSER) or Final Safety Analysis Report (FSAR) items.

The item numbers listed below correspond to those assigned on STP's internal list of items for completion which includes open and confirmatory DSER items, STP FSAR open items and open NRC questions. This list was given to your Mr. N Prasad Kadambi on October 8, 1985 by our Mr. M. E. Powell.

The attachments include mark-ups of FSAR pages which will be incorporated in a future FSAR amendment unless otherwise noted below.

The items which are attached to this letter are:

<u>Attachment</u>	<u>Item No.*</u>	<u>Subject</u>
1	Q480.006N-1	HVAC Blowout Panel

8511040085 851030  
PDR ADOCK 05000498  
E PDR

\* Legend

D - DSER Open Item  
F - FSAR Open Item

C - DSER Confirmatory Item  
Q - FSAR Question Response Item

L1/DSER/aa

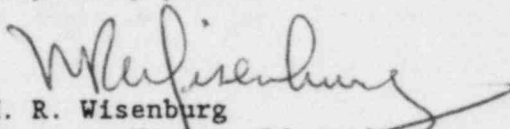
*Boo!*

Houston Lighting & Power Company

ST-HL-AE-1473  
File No.: G9.17  
Page 2

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

Very truly yours,

  
M. R. Wisenburg  
Manager, Nuclear Licensing

REP/bl

Attachments: See above

LI/DSER/aau

cc:

Hugh L. Thompson, Jr., Director  
Division of Licensing  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Robert D. Martin  
Regional Administrator, Region IV  
Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 1000  
Arlington, TX 76011

N. Prasad Kadambi, Project Manager  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, MD 20814

Claude E. Johnson  
Senior Resident Inspector/STP  
c/o U.S. Nuclear Regulatory  
Commission  
P.O. Box 910  
Bay City, TX 77414

M.D. Schwarz, Jr., Esquire  
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 A. Sinkin  
3022 Porter Street, N.W. #304  
Washington, DC 20008

Oreste R. Pirfo, 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 Frederick J. Shon  
Atomic Safety and Licensing Board  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Mr. Ray Goldstein, Esquire  
1001 Vaughn Building  
807 Brazos  
Austin, TX 78701

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  
(3 Copies)

Advisory Committee on Reactor Safeguards  
U.S. Nuclear Regulatory Commission  
1717 H Street  
Washington, DC 20555

Revised 9/25/85

Question  
480.6  
(6.2.1)

Concerning the blowout panel in the heating, ventilating, and air conditioning ducting leading from the loop compartment subpedestal space to the lower reactor cavity (i.e., junction 110 in Table 6.2.1.1-4):

- a. Justify the constant vent area of 4.05 square feet given for this vent path in Table 6.2.1.2-4.
- b. Provide the dynamic analysis of the blowout panel that gives the vent area as a function of time after the break.
- c. Provide drawings showing details of the blowout panel and surrounding areas.
- d. With regard to possible generation of missiles, describe the potential for damage to safety-related systems by the blowout panel during a loss-of-coolant accident within the reactor cavity/inspection toroid.

ATTACHMENT I  
ST-HL-AE-1473  
PAGE 1 OF 1

Response

FSAR Section 6.2.1 will be revised. The following responses are based on the revised section.

- a. The HVAC panels are in junction 108 of the revised analysis model. There are two panels, one on either side of the ducting supplying cooling air from the reactor cavity cooling units. The total vent area is 13.5 square feet.
- b. The panels are assumed to relieve at 1 psi differential pressure across the panels. Since they are light panels they are assumed to provide full open area instantaneously when the differential pressure value is reached. This occurred at 0.122 seconds into the analysis.
- c. The surrounding area is shown in figure 1.2-12 and drawings showing the blowout panel locations are provided in the response to Q 480.4.
- d. There are no safety related equipment or components susceptible to damage by a missile which might be created by the blowout panel during a LOCA. Safety-related equipment in the space with the HVAC panels are protected by concrete structures or located at a substantially higher elevation taking them out of the area of potential impact. This will be verified as part of the ongoing hazard analysis program.

As indicated in response to Question 210.20A, upon NRC approval of the elimination of RCL pipe breaks, the FSAR will be revised to reflect this revised design basis including FSAR section 6-2.1 and the elimination of the blowout panel.

W2/JSP/s