

The Light company

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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

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PDR ADOCK 05000498
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* Legend

D - DSER Open Item
F - FSAR Open Item

C - DSER Confirmatory Item
Q - FSAR Question Response Item

L1/DSER/aau

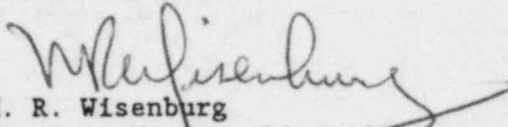
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If you should have any questions concerning this matter, please contact Mr. Powell at (713) 993-1328.

Very truly yours,


M. R. Wisenburg
Manager, Nuclear Licensing

REP/bl

Attachments: See above

L1/DSER/aau

cc:

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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 /
ST-HL-AE-1473
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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