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October 29, 1985
ST-HL-AE-1477
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 Question 430.111N

Dear Mr. Knighton:

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

The item number 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 attachment includes 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:

Attachment	Item No.*	Subject
1	Q430.111N-1	Deletion of commitment to provide conformance to position 3 of PSB-1 in response to Q430.111N. Note: this commitment was not relevant to this question. HL&P's commitment to provide conformance to Position 3 of PSB-1 will be provided as a part of the response to Q430.20N.

* Legend
D - DSER Open Item C - DSER Confirmatory Item
F - FSAR Open Item Q - FSAR Question Response Item

L1/DSER/aaw

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

CAA/bl

Attachments: See above

L1/DSER/aaw

cc:

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Revised 9/25/85

L1/DSER/arw

Question 430.111N

Per section 8.1.14.1, two 4.16 kV ESF buses are supplied from the unit's standby transformer and the third 4.16 kV ESF bus is supplied from the unit auxiliary transformer during normal plant operation. For a reactor, turbine or generator trip, the generator circuit breaker automatically opens to maintain supply to the 4.16 kV ESF bus (the third bus) through the unit auxiliary transformer. In case the generator breaker fails to open thus tripping the switchyard breakers to isolate the unit, explain if the affected bus (third bus) will enter Mode II operation as stated in Section 8.3.1.1.4.4.2 while the other two 4.16 kV ESF buses operate with the offsite source from the standby transformer.

Response

In event of the unit generator switchyard 345 kV circuit breakers opening while the unit is in operation, all power to the auxiliary distribution system connected to the unit auxiliary transformer will be lost. Undervoltage relays of the affected Class 1E 4.16 kV bus will sense the loss of voltage and initiate the Engineered Safety Feature (ESF) load sequencer to automatically implement a Mode II operation as described in Section 8.3.1.1.4.4.2.

Conformance with position 3 of PSB-1 will be provided in a future Amendment as stated in the response to Q430.20N.