

Docket No. 50-458

Mr. William J. Cahill, Jr.  
Senior Vice President  
River Bend Nuclear Group  
Gulf States Utilities Company  
P.O. Box 2951  
Beaumont, Texas 77704  
Attention Mr. J. E. Booker

JUL 23 1985

Dear Mr. Cahill:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - HYDROGEN CONTROL

As a part of the NRC staff's review of your application for an operating license for River Bend Station, the staff has determined the need for additional information in the area of hydrogen control - equipment survivability. The request for information is included in the enclosure as Questions 1 - 3 and refers to a document submitted to NRC by GSU on July 1, 1985, entitled "Preliminary Equipment Survivability Report" (RBG 21,454).

Please inform NRC Project Manager Stephen Stern, of your schedule for response and for clarification or further discussion on this topic.

Sincerely,

Walter R. Butler, Chief  
Licensing Branch, No. 2  
Division of Licensing

Enclosure: As stated

cc w/enclosure: See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

JUL 23 1985

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Sincerely,

A handwritten signature in cursive script, appearing to read "W. Butler", is written above the typed name.

for  
Walter R. Butler, Chief  
Licensing Branch, No.2  
Division of Licensing

Enclosure: As stated

cc w/enclosure: See next page

Mr. William J. Cahill, Jr.  
Gulf States Utilities Company

cc:

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Enclosure 1

1. In your submittal, you state that a piece of equipment will survive if the maximum external surface temperature or the maximum internal temperature at the most limiting component reached during a hydrogen burn, is below the qualification temperature for this piece of equipment. During the qualification tests, the actual temperatures reached by the components of the tested equipment were not measured. Hence, you should demonstrate that the temperatures reached by the most limiting internal component of the equipment exposed to a hydrogen burn, remain below the temperatures reached by the corresponding components during the qualification tests (even though in these tests the equipment may be exposed to different temperature-time profiles).
2. Justify the use of 12ft/sec velocity in calculating convection of heat to the modeled equipment.
3. Describe the method of enhancement of conductive heat transfer in free air spaces in order to account for the natural convection existing in these spaces.