



**GULF STATES UTILITIES COMPANY**

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AREA CODE 409 838-6631

August 16, 1985

RBG- 21884

File No. G9.5

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Denton:

River Bend Station-Unit 1  
Docket No. 50-458

As requested by the Nuclear Regulatory Staff, Gulf States Utilities (GSU) is providing supplementary information and clarifications to assist in your evaluation of the adequacy of the Hydrogen Control System at River Bend Station. This supplementary information consists of two attachments.

Attachment 1 provides an assessment of equipment survivability enhancements which could, if necessary, be employed to mitigate the effects of a hydrogen generation event. The evaluation provided in this attachment is intended only to indicate the ability of these protection measures to enhance equipment survivability. Based on the conservative nature of the GSU preliminary analysis performed to date, we do not feel that there is a need for further consideration or implementation of any additional equipment protection measures at this time. The Hydrogen Control Owners Group (HCOG) quarter scale testing has performed 17 scoping tests which have demonstrated that the hydrogen burn phenomena modeled by the CLASIX-3 computer does not occur. Therefore, the CLASIX-3 code may over-predict the hydrogen burn thermal environment.

If as a result of final analyses and completion of the HCOG program it is shown that equipment protection should be provided, GSU will provide this information at the first refueling outage or other schedule agreed to with your Staff. Attachment 2 provides responses to NRC Staff questions arising during the August 12, 1985, meeting with GSU.

Sincerely,

*J. E. Booker*

J. E. Booker  
Manager-Engineering,  
Nuclear Fuels & Licensing  
River Bend Nuclear Group

JEB/ERG/EJZ/kt  
Attachments

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