



GULF STATES UTILITIES COMPANY

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August 19, 1985

RBG - 21,900

File No. G9.5

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

River Bend Station Unit 1
Docket No. 50-458

Dear Mr. Denton:

Gulf States Utilities (GSU) is providing supplementary information to assist in your evaluation of the adequacy of the Hydrogen Control System at River Bend Station. This supplementary information consists of two attachments.

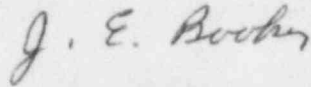
Attachment 1 provides a revised CLASIX-3 analysis for the Stuck Open Relief Valve (SORV) base case. The revised SORV base case analysis used assumptions agreed upon during the August 12, 1985, meeting between the NRC Staff and GSU. During this meeting, the staff also suggested that condensation on heat sinks and equipment surfaces be included in the revised analysis. Inclusion of condensation in the CLASIX-3 analysis is appropriate and would be effective in reducing the predicted thermal environment. However, due to the time available to perform the re-analysis, this effect was not included. Attachment 2 provides an evaluation of the River Bend Station equipment response to deflagration type hydrogen burns. The thermal environment utilized in this analysis was obtained from the revised SORV base case. The results of this survivability analysis show that the analyzed equipment is capable of surviving the postulated hydrogen generation event. Since the equipment analyzed has been previously shown to be the most sensitive to a deflagration burn environment, it can be reasonably concluded that all equipment in the intermediate volume will survive the hydrogen generation event. Analysis of the wetwell hydrogen igniters for the revised thermal profiles will be submitted by August 21, 1985.

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If this additional analysis and the results of the Hydrogen Control Owners Group quarter scale testing program indicate that measures should be taken to enhance equipment survivability, this information will be provided at the first refueling outage or some other schedule agreed to with your staff.

Very truly yours,



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

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Attachments