GULF STATES UTILITIES COMPANY

July 5, 1985
RBG- 21454
File No. G9.5

Mr. H. R. Denton
Office of Nuclear 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 NRC Staff, Gulf States Utilities Company (GSU) has revised the CLASIX-3 drywell break analysis previously submitted on June 7, 1985. Enclosed is a copy of GSU's report entitled "Revised Drywell Break Base Case Analysis".

The peak containment pressure calculated for the revised drywell break analysis during hydrogen release was 12.7 psig and occurred in the wetwell volume. This result, when compared with the RBS ultimate pressure retaining capability of 56 psig (GSU letter from J. E. Booker to R. L. Tedesco dated June 22, 1983) demonstrates that hydrogen burns do not threaten the RBS containment structural integrity.

The revised CLASIX-3 analysis used hydrogen source terms representative of severe accident conditions equivalent to a 75% clad equivalent metal-water reaction. As a result, the containment temperatures and pressures predicted by this analysis are conservative.

Gulf States Utilities is participating in the Hydrogen Control Owners Group (HCOG) testing and analysis program to further address hydrogen burn phenomenon. Results from this program will be evaluated for applicability to the River Bend Station and if necessary incorporated into GSU's final analysis as noted in our letter of June 26, 1985.

B001
1/40

8507170219 850705
PDR ADOCK 05000458
A PDR

The submittal of this reanalysis provides additional information regarding the drywell break analysis as requested by the NRC Staff.

Very Truly Yours,

J. E. Booker

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

JEB/WJR/EJZ/MAM/kak

Attachment

NDC