GULF STATES UTILITIES COMPANY
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December 21, 1984
RBG-19,753
File Nos. G9.5,
G9.8.6.2

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

Provided below for your review is the Gulf States Utilities Company (GSU) response to Request for Additional Information identified by the Nuclear Regulatory Commission's Instrumentation and Control Systems Branch (ICSB). This letter will provide final close out to Confirmatory Item (24) of Table 1.4 of the Safety Evaluation Report.

As discussed in a meeting between GSU and ICSB on August 7-9, 1984, the electrical protection assembly overvoltage, undervoltage, and underfrequency setpoints are established in accordance with the procedure outlined in the NSSS design document. This procedure ensures that adequate voltage is supplied to the Reactor Protection System (RPS) scram pilot valve solenoids.

Overvoltage and undervoltage setpoints will take into account the voltage drops, from the power source to the loads, that result from wiring and cabling impedence between the two locations. Field measurements of actual line voltage drops will be taken for each of the two RPS trip system supplied with power from the two RPS motor generator sets. For undervoltages, the applicable undervoltage limit is added to the measured cable voltage drops for each load, and the largest resulting value is selected as the undervoltage setpoint. For overvoltage, the applicable overvoltage limit is added to the measured cable voltage drops for each load, and the lowest resulting value is selected as the overvoltage setpoint.

The continuous frequency of the power supplied to the various RPS loads is insensitive to cable lengths therefore, all underfrequency trip setpoints are adjusted to the same nominal value of 57 Hz.

Sincerely,

J. E. Booker

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

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