



GULF STATES UTILITIES COMPANY

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December 3, 1984
RBC-19,607
File No. 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

Enclosed for your review is 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 and my letter dated November 30, 1984 that transmitted drawings for the Emergency Response and Information System will provide final close out to Confirmatory Item (43) of Table 1.4 of the Safety Evaluation Report. The enclosure contains changes to the Final Safety Analysis Report (FSAR) text that will be incorporated into a future amendment.

Sincerely,

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

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Enclosure

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ENCLOSURE

- ① Failure of the DAS self test circuitry has been analyzed and results demonstrate that safety-related signals are not impaired.

RBS FSAR

9. Process computer interface with rod control and information system. | 9

7.7.1.7 Emergency Response Information System (ERIS)

7.7.1.7.1 ERIS Function

The function of the ERIS is to gather plant data, store and process that data, generate visual displays of plant status information, and provide printed and plotted records of transient events.

1. System Operation

Data Acquisition System (DAS) - The data acquisition system interfaces with existing plant sensors or devices, converts the acquired signals to digital data, and performs preprocessing of the data before passing it on to the central processors. Self-test features are built into each element of the DAS. ①

Remote Input Modules (RIM) - Remote input modules are part of the DAS and are mounted in the control room or in local panels to receive plant signals to be used in ERIS. Modules that interface with safety-related devices are qualified to the same standards such that total system integrity is maintained. The input modules provide isolation amplifiers between the incoming signals and ERIS. Additional isolation is achieved through use of fiber optic cable which can be used to connect the input modules to the data multiplexer or data formatter. Signal conditioning and digitizing are accomplished by the input modules.

Data Multiplexer Module (MUX) - The data multiplexer is part of the DAS and receives inputs from several input modules and then multiplexes these signals to the data formatters. Multiplexing reduces the number of wires between the remote input modules and the data processors.

Data Formatter Module (DFM) - The data formatter module is part of the DAS and performs some preprocessing of data before sending it to the data processing system.

Data Processing System (DPS) - The data processing system receives data from the DAS, stores the data,