



GULF STATES UTILITIES COMPANY

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RBG - 21820

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

Pursuant to a request by your Staff, Gulf States Utilities (GSU) Company provides the attached supplementary information with regard to the design of HPCS diesel generator engine mounted piping and components and the HPCS diesel generator lubrication oil system piping and components. GSU has evaluated these systems and concludes that they are satisfactory to perform their required function with regard to functional operability and inservice reliability.

Sincerely,

J. E. Booker

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

JEB/ERG/kt

Enclosure

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HPCS DIESEL ENGINE SUPPORT SYSTEMS

Engine mounted piping and components, including the lube oil, on the HPCS diesel generator, was provided in accordance with the General Electric Company purchase specification to commercial standards of the manufacturer. Independent design reviews, tests and inspections were performed at River Bend to verify adequacy of the piping. The design review included evaluations for pressure, dead-weight, thermal, vibration, and seismic loadings in accordance with the design requirements of ANSI B31.1. Pipe wall thicknesses were verified by ultrasonic measurement. In lieu of a hydrostatic test of this piping, welds were visually inspected in accordance with the acceptance criteria of ANSI B31.1, and an operational leak test was performed in accordance with the requirements of ANSI B31.1.

The provisions and methods of ANSI B31.1 parallel those of Section I, "Power Boilers," of the ASME Boiler and Pressure Vessel Code, as they can be applied to piping systems functioning at elevated pressures and temperatures. The ANSI B31.1 standards reflect the general need for long service life and high reliability in the power and chemical industries. Piping systems designed to these requirements have a history of high reliability. The conservatism inherent in ANSI B31.1, together with the margins demonstrated with respect to the B31.1 design limits and the low operating pressures and temperatures of the engine mounted piping, combine to provide functional operability and inservice reliability commensurate with the requirements for safety related components. The River Bend HPCS diesel generator engine mounted piping and components, including the lube oil, is identical to the LaSalle HPCS diesel engine support systems.