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Docket No.: 50-458

JUL 11 1984

MEMORANDUM FOR: J. Nelson Grace, Director
 Division of Quality Assurance, Safeguards,
 and Inspection Programs
 Office of Inspection and Enforcement

FROM: Darrell G. Eisenhut, Director
 Division of Licensing
 Office of Nuclear Reactor Regulation

SUBJECT: SHEAR REINFORCEMENT DESIGN

By memorandum dated May 31, 1984, you requested assistance in evaluating the adequacy of the shear reinforcement design of cylindrical concrete structures at River Bend Station and questioned the potential need for NRC generic action. These concerns arose from findings generated by the River Bend Station Integrated Design Inspection Team.

A meeting was held on June 20, 1984, with the applicant Gulf State Utilities Company (GSU), the architect-engineer Stone & Webster Engineering Corporation (SWEC) and the NRC staff to discuss the shear reinforcement design philosophy of SWEC. The interpretation of the applicable code (ACI 318-71) for the reinforcement design procedure appears to be reasonable and the provided ~~5~~-bar length acceptable. The staff will require additional documentation of the design for River Bend Station and the Structural and Geotechnical Engineering Branch of NRR will also request additional information from SWEC on the generic aspects of this design philosophy.

Original signed by
 Darrell G. Eisenhut

Darrell G. Eisenhut, Director
 Division of Licensing
 Office of Nuclear Reactor Regulation

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