GULF STATES UTILITIES COMPANY

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U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

River Bend Station - Unit 1
Docket No. 50-458

Enclosed is Gulf States Utilities Company's Special Report concerning a seismic triaxial response spectrum recorder at River Bend Station. This report is submitted pursuant to River Bend Station Technical Specification 3.3.7.2 and 6.9.2.

Sincerely,

W.H. Odell
Manager - Oversight
River Bend Nuclear Group

LAE/PDG/JPS/DCH/RLS/kvm

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INTRODUCTION

On 3/12/92, seismic triaxial response spectrum recorder 1ERS-NBR2D was removed from service in order to implement modification request (MR) 92-0003. This modification was to revise the annunciation setpoints to provide an alarm at 100 percent operating basis earthquake (OBE) and 100 percent safe shutdown earthquake (SSE) in accordance with NUREG-0654. During the effort to implement this modification, it was discovered that several of the individual accelerometers in 1ERS-NBR2D were missing parts. Following its last calibration, the instrument was returned to service on 12/16/91. Therefore, it is likely that the parts have been missing since that time. Since this instrument cannot be considered to have been operable from 12/16/91 to 3/12/92, the 30-day action statement of Technical Specification 3.3.7.2 has been exceeded. GSU's evaluation of this condition revealed that a Special Report was required pursuant to Technical Specification 3.3.7.2 and 6.9.2 on 3/26/92. Therefore, this report is submitted within 10 days from that date.

INVESTIGATION

River Bend uses Engdahl Enterprises model RSR 1600 triaxial response spectrum recorders. Each recorder consists of 3 individual recorder units each having 16 individual accelerometers (48 total). The 3 recorder units are arranged with one recorder unit monitoring seismic activity in the north/south direction, a second recorder unit monitoring east/west seismic activity and the third recorder unit monitoring vertical seismic activity. The 16 individual accelerometers record the magnitude of seismic activity at prescribed frequencies ranging from 1.0 HZ to 32.0 HZ. Seismic recorder 1ERS-NBR2D monitors seismic activity at the reactor building mat elevation 70'.

The missing parts in 1ERS-NBR2D are listed below:

. Recorder Unit SN-678:

Accelerometer #1 had mechanical weights installed backwards.

Accelerometer #5 was missing its damper assembly.

Accelerometers #12, 13, and 14 were installed without their mechanical stops.

. Recorder Unit SN-680:

Accelerometer #2 was not installed level and leveling washers were missing.

Accelerometers #4 and #10 were installed with damper parts missing.

The missing parts are believed to have been erroneously omitted during previous calibrations in an attempt to make coarse calibration

adjustments to satisfy the individual accelerometer calibration requirements. This instrument was last calibrated and returned to service on 12/16/91. A lack of familiarity with the calibration of this equipment by personnel is the cause of the omission of components and installation errors.

CORRECTIVE ACTION

The triaxial response spectrum recorder, 1ERS-NBR2D has been repaired by the replacement of the missing parts or complete replacement of individual accelerometers. The revised annunciator setpoints per MR 92-003 have been implemented and the instrument was recalibrated. The instrument was declared operable on 3/24/92.

Prior to the discovery of this condition, GSU had developed a training program to familiarize maintenance personnel with the calibration and maintenance of the triaxial response spectrum recorders, as well as other seismic instruments at RBS. This training is specialized training for instrumentation and control (I&C) technicians. The classroom portion was held for the first time during the week of 3/30/92. Also included is an on-the-job training (OJT) portion which requires the technician to complete a supervised surveillance test on these instruments prior to qualification for that task.