

APPENDIX

U.S. NUCLEAR REGULATORY COMMISSION
REGION IV

NRC Inspection Report: 50-458/89-14

Operating License: NPF-47

Docket: 50-458

Licensee: Gulf States Utilities (GSU)
P.O. Box 220
St. Francisville, Louisiana 70775

Facility Name: River Bend Station (RBS)

Inspection At: St. Francisville, Louisiana

Inspection Conducted: April 3-7, 1989

Inspector:

Claude E. Johnson,
C. E. Johnson, Reactor Inspector, Plant
Systems Section, Division of Reactor Safety , 18-89

Approved:

T. F. Stetka,
T. F. Stetka, Chief, Plant Systems Section
Division of Reactor Safety

4/20/89 Date

Inspection Summary

Inspection Conducted April 3-7, 1989 (Report 50-458/89-14)

Areas Inspected: Routine, unannounced inspection of testing of pipe supports and restraint systems.

Results: Within the areas inspected, no violations or deviations were identified.

Review of the licensee's program indicated that management attention is evident in these areas. However, there were two followup items discussed in the report by the NRC inspector. Overall, the pipe supports examination and testing program is adequate.

DETAILS

1. Persons Contacted

GSU

*J. C. Deddens, Senior Vice President
*T. C. Crouse, Manager, Quality Assurance
*L. A. England, Director, Nuclear Licensing
*C. W. Walker, Supervisor, Quality Control (QC)
*G. K. Henry, Director, Quality Operations
*M. F. Sankovich, Manager, Engineering
*K. E. Suhrke, Manager, Project Management
*J. B. Blakley, Supervisor, ASME XI
*W. H. Odell, Manager, Administration
*J. W. Cook, Lead Environmental Analyst, Licensing
*R. D. Carlyle, Inservice Inspection (ISI) Coordinator

Cajon Electric

*W. L. Curran, Site Representative

USNRC

*H. Kerch, Senior Reactor Engineer, Region I

*Denotes personnel attending exit meeting held on April 6, 1989.

2. Testing of Piping Support and Restraint Systems (70370)

The purpose of this inspection was to ascertain whether the licensee has established an adequate program and procedures pertaining to the examination and testing of piping supports and restraint systems.

a. Procedure Review

The NRC inspector reviewed the River Bend Station (RBS) ISI Plan submitted to and approved by the NRC on October 20, 1987. The NRC inspector also reviewed the implementing procedures for the ISI plan as listed below:

- ENG-3-013, "River Bend Preservice Inspection (PSI)/ISI Component Support Program," Revision 3, dated July 18, 1988
- QCI-3.25, "Visual Examination VT-3," Revision 3, dated July 7, 1988
- RBNP-042, "RBS American Society of Mechanical Engineers (ASME) Section XI Program Organization, and Responsibilities," Revision 1, dated July 5, 1988

- EDP-ME-63, "PSI/ISI Forms Management," Revision 4, dated June 15, 1988
- EDP-ME-58, "PSI/ISI Component Support Examination and Testing Package Preparation, Control and Storage," Revision 3, dated May 3, 1988
- ENG-3-012, "ASME Section XI PSI/ISI Documentation Control," Revision 1, dated June 21, 1988
- QCI-3.26, "Visual Examination VT-4," Revision 3, dated July 7, 1988
- Technical Specification (TS) 3/4.7.4, "Snubbers"

Procedures reviewed by the NRC inspector appear to be adequate. It was also noted that the licensee has submitted Technical Specification Change Request (TSCR) 87-0028 to delete snubbers from the TS and use only the ISI plan. Review of the ISI plan and the amendment change indicates that very little will change. It appears that the ISI plan will be more specific in the types of snubbers to be included in the ISI program. This change is consistent with the NRC plan to place all snubber surveillance activities under the ISI plan.

b. Field Observations of Pipe Supports

The NRC inspector examined approximately 25 pipe supports of various types and systems. Attributes that were selected for observation in the visual examination are listed as follows:

- Deterioration, corrosion, physical damage, or deformations were not evident;
- All required bolts, locking devices, nuts, and washers were installed;
- Extension rods, support plates, and connecting joints were not bent, deformed, or loose;
- Snubber settings;
- Pipes, supports, or other associated equipment or components were not restricted or in contact with other surfaces as a result of thermal expansion;
- Springs in hangers were not obstructed by foreign material;
- Indicators or spring hangers show either "cold" or "hot" position, consistent with plant condition; and

- ° Threaded connections were secured by locknuts, fasteners, and cotter pins.

Supports examined are listed below:

Support Nos.

1RHS * PSSH-2167-A2	1RHS * PSST-2347-A2
1WCS * PSSP-3023-A1	1SLC * PSSP-3122-A2
1SWP * PSST-1441-A3	1SWP * PSSP-1610-A3
2SWP * PSST-1761-A3	1SWP * PSR-1432-A3
1SWP * PSST-1374-A3	1SVV * PSSP-3021-A3
1SVV * PSSP-3053-A3	1SVV * PSSP-3119-A3
1SVV * PSSH-3120-A3	1SVV * PSSP-3124-A3
1SVV * PSSH-3132-A3	1SVV * PSSP-3134-A3
1SVV * PSSP-3135-A3	1SVV * PSSP-3203-A3
1SVV * PSSP-3227-A3	1CSL * PSSP-2010-A3
1CSL * PSSP-2012-A2	1CSL * PSSH-2002-A2
1SWP * PSSP-1447-A3	1SWP * PSSP-1433-A3
1CSL * PSST-2008-A2	

Overall, the pipe supports examined appeared acceptable, however, there were two discrepancies noted below:

- (1) Inspection of the service water system (SWS) on Train "B" indicated that many supports contained from light to heavy rust deposits on various parts of the support. Some welds had not been painted and showed excessive oxidation and rust deposits on the welds. This finding was discussed with licensee representatives.

The licensee had selected Train "A" for their ISI sampling plan. This plan is consistent with IWF-2510 (b) of Section XI which states, that, ". . . multiple components within a system of similar design, function, and service, the supports of only one of the multiple components are required to be examined." Based upon the inspector's findings, it appears that increased surveillance activities by QC should be performed on Train "B" supports in the area because of the observed corrosion problems in the SWS.

The Director of Field Engineering has submitted a memorandum dated April 6, 1989, to QC requesting additional surveillance on supports located near sample supports to identify whether unsatisfactory conditions exist. This item is considered to be an NRC inspector followup item.

Inspector Followup Item (458/8914-01): Review proposed increased QC surveillances for adjacent pipe supports not included on the ISI sampling plan.

(2) During the inspection inside containment, the NRC inspector noted that Spring Hanger 1SVV * PSSH-3120-A3 located inside the drywell, had bottomed out according to the indication scale. Review of the previous inspection conducted by QC indicated that during Refueling (RF) Outage 1, the support setting was acceptable. The licensee is presently investigating this finding. This item is considered to be an NRC inspector followup item.

Inspector Followup Item (458/8914-02): Review licensee's investigation of Hanger 1SVV * PSSH-3120-A3 located inside the drywell.

c. Inservice Tests for Snubbers

The NRC inspector witnessed functional testing performed on Snubbers 1SVV * PSSP-3018-A3, 1WCS * PSSP-2019-A3, 1TCS * PSSP-2107-A2, and 1SVV * PSSP-3014-A3. Observations by the NRC inspector indicated the following:

- Personnel performing the testing were qualified.
- Proper instructions and procedures were followed.
- The functional test machine and accessories were calibrated as required.
- As-found drag force, activation/acceleration, and as-left drag force were within acceptable limits.

The licensee's testing program is being conducted by a contractor (Wyle Laboratories). It appears that the licensee's testing program is adequate.

In conclusion, the licensee has established an adequate program and implementing procedures for the examination and testing of pipe supports.

3. Exit Interview

The NRC inspector met with the licensee personnel (denoted in paragraph 1) on April 6, 1989, and summarized the scope and findings of this inspection. No information was identified as proprietary.