APPENDIX

U. S. NUCLEAR REGULATORY COMMISSION
REGION IV

Report: 50-382/83-06

Docket: 50-382 License: CPPR-103

Licensee: Louisiana Power and Light Company
142 Delaronde Street
New Orleans, Louisiana 70174

Facility Name: Waterford Steam Electric Station, Unit 3

Inspection At: Taft, Louisiana

Inspection Conducted: January 17-21, 1983

Inspectors: L D Gilbert 2/4/83
L. D. Gilbert, Reactor Inspector, Engineering Section Date

R. P. Mullikin 2/4/83
R. P. Mullikin, Reactor Inspector, Engineering Section Date

Approved: D M Hunnicutt 2/4/83
D. M. Hunnicutt, Chief, Engineering Section Date

Inspection Summary

Inspection Conducted January 17-21, 1983 (Report 50-382/83-06)

Areas Inspected: Routine, unannounced inspection of licensee action on previous inspection findings; review of records for postweld heat treatment of safety-related piping; review of QA/QC electrical procedures; and observation of electrical terminations. The inspection involved 58 inspector-hours by two NRC inspectors.

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

DETAILS

1. Persons Contacted

Principal Licensee Employees

*T. F. Gerrets, QA Manager
*L. L. Bass, Project QA Engineer
*B. M. Toups, QA Engineer Technician
J. J. Dore, PSI Coordinator
W. A. Cross, NPSG Licensing
R. Sandridge, Construction QA
*R. James, Construction QA Engineer
M. Livesay, Licensing
G. Koehler, QA Engineer

Other Personnel

L. Richardson, QA Supervisor, Tompkins-Beckwith
J. Czyrko, PSI Coordinator, Ebasco
R. Esnes, ESSE Lead Electrical Engineer, Ebasco

The NRC inspectors also interviewed other contractor QA/QC personnel.

*Denotes those attending the exit interview.

2. Followup on Previous Inspection Findings

(Closed) Unresolved Item (8217-01): Ultrasonic examination records. The NRC inspector reviewed the revised ultrasonic examination record sheets for welds 16-003, 16-005, 16-006, 16-010, 16-011, and 16-016. The revised records resolve the discrepancy concerning the calibration block used by the examiner.

This item is considered closed.

(Closed) Unresolved Item (8221-01): Interpass temperature holdpoint release. The NRC inspector reviewed Deficiency Notice W-4253 which had been issued to resolve a QC holdpoint for an interpass temperature check that had been marked "not applicable" by a QC inspector. The Deficiency Notice has been adequately dispositioned and the inspectors have received additional instructions on holdpoints.

This item is considered closed.

(Closed) Deviation (50-382/82-06): Postweld Heat Treatment of Reactor Coolant Pressure Boundary Piping. The NRC inspector reviewed Amendment #28 (7/82) to the FSAR which revised the material requirements for the reactor coolant pressure boundary piping to be consistent with the material properties of the weld and pipe material after postweld heat treatment.

This item is considered closed.

3. Safety-Related Piping Weld Heat Treatment

The NRC inspector reviewed the weld record sheets and postweld heat treatment data sheets for the following four welds.

Weld No.	Drawing No.	System	Class
FW-1	E-2803 1C-862	Feedwater	3
FW-9	E-2803 1C-77	Feedwater	2
FW-1	E-2803 1C-49	Main Steam	2
FW-1 RW-1R1	E-2803 1C-858	Feedwater	3

In the areas reviewed, the preheat and interpass temperatures and postweld heat treatment for each of the above weldments were consistent with requirements of ASME B&PV Code, Sections III and IX, and procedural requirements of the following Tompkins-Beckwith procedures.

- TBP-31, Revision B, "Postweld Heat Treatment Procedure"
- TBP-30, Revision C, "Preheating and Interpass Temperature Procedure"
- WP 6.1, Revision 0, "Gas Tungsten-Arc Welding with Postweld Heat Treatment"
- WP 1.14, Revision W-0, "Consumable Insert, Gas Tungsten-Arc Welding and Shielded Metal-Arc Welding of Carbon Steel Materials, Preheat 50° Minimum and Postweld Heat Treatment"

No violations or deviations were identified in this portion of the inspection.

4. Review of QA/QC Procedures-Fire Retardant Material

The NRC inspector examined licensee's documents to determine whether adequate QA/QC procedures exist to assure compliance with NRC requirements and licensee commitments for the performance of the following activities dealing with electrical cable/conduit fire protection material: receipt inspection and storage, handling and installation, inspection and testing, and identification.

A. Receipt Inspection and Storage

The NRC inspector examined the following QC procedures by B&B Insulation, Inc., for the receipt inspection and storage of fire retardant material.

- QCP-0008, "Receiving Inspection and Documentation," Revision 2, dated July 1, 1982
- QCP-0015, "Material Usage Register (Inventory Control)," Revision 2, dated July 1, 1981
- B&B Quality Assurance Program, Section VIII, "Document Control"
- QCP-0024, "Material Storage Inspection Procedure," dated November 6, 1981

These procedures provide for adequate receipt inspection and testing, storage, and storage identification of fire retardant material.

B. Handling and Installation

The following B&B Insulation, Inc., procedures for the handling and installation of fire barriers were examined by the NRC inspector.

- QCP-0009, "Calibration and Certification of Measuring and Test Equipment," Revision 4, dated July 1, 1982
- QCP-0010, "Certification of Inspection, Examination and Testing Personnel," Revision 3, dated July 1, 1982
- QCP-0004, "Preparation of Instructions, Procedures, and Drawings," Revision 2, dated May 10, 1982
- QCP-0022, "Training of Quality Personnel," dated November 1, 1982
- Procedure No. 1030.102, "Installation Procedure for B&B Insulation, Inc., Flexible Boot Seals," Revision 1, dated December 1, 1981
- Procedure No. 1030.112 "Installation Procedures for B&B Insulation Inc., Rad-Flex Seal," dated March 1, 1980
- Procedure No. 1020.212, "Proportioning, Pre-Batching, and Blending B&B Rad-Flex Components A&B," dated January 27, 1982

- Procedure No. 1700.101," Installation Procedure B&B Insulation, Inc., Hi-Density Leaded Matrix," dated March 1, 1980

- Procedure No. 1700.201, "Proportioning and Pre-Blending of B&B Hi-Density Leaded Matrix Components A&B," Revision 1, dated February 3, 1981

- Procedure 6548.101, "Installation Procedure - Ceramic Fiber Damming (Forming) Material for 3-6488 Silicone RTV Foam Applications," Revision 1, dated November 23, 1981

- Procedure 6548.102, "Installation Procedure Dow Corning 3-6548 Silicone RTV Foam," dated March 1, 1980

These procedures adequately provide for installation instructions (both for normal and unusual jobs), the control and periodic calibration of special tools, the use of current and approved drawings and specifications, and the training of personnel.

C. Inspection and Testing

The NRC inspector reviewed the following B&B Insulation, Inc., procedures for the inspection and testing of fire retardant material.

- QCP-0013, "Inspection, Test, and Operating Status," Revision 1, dated July 1, 1981

- QCP-0013, "Inspection, Test, and Operating Status," Revision 1, dated July 1, 1981

- QCP-0014, "Penetration Inspection/Acceptance Documentation"

- QCP-0017, "Documentation of Material Density Verification," Revision 3, dated July 1, 1982

These procedures adequately provide for the inspection and testing of fire retardant material. The results of inspections are transmitted to responsible QA and management personnel for review. The acceptance criteria are specified in the applicable testing and inspection procedures.

D. Identification

The following B&B Insulation, Inc., procedures were examined by the NRC inspector relative to the identification of fire retardant material.

- QCP-0012, "Identification and Control of Materials, Parts, and Components," dated March 1, 1980

- QCP-0016, "Sealing Material Traceability," Revision 2, dated July 1, 1981

- QCP-0018, "Non-Conformance and Corrective Action," Revision 3, dated March 1, 1980

These procedure assure that fire retardant material is traceable to specification requirements and materials certification and identified from receipt through installation. Procedures also require nonconforming material to be segregated.

No violations or deviations were identified in this portion of the inspection.

5. Electrical-Observation of Completed Work (Instrumentation Terminations)

The NRC inspector selected sixteen instrumentation cables for components important to safety. These cables are part of the containment pressure instrumentation system. Each cable termination was inspected at the control room panel, the auxiliary building electrical penetration, the reactor containment building electrical penetration, and the instrument cabinet (where it was spliced with the pressure transmitter factory wiring). The completed work by Fischbach & Moore, Inc., (F&M) was inspected against the requirements of F&M Procedure CP-307, the F&M Cable Termination Worksheets, and EBACO Drawing LOU-1564-8-424. The terminations for the following cables were inspected:

Cable No.	Control Room Panel	Electrical Penetration	Pressure Transmitter
30621A-SMA	CP-25	121	PT-CA6701SMA
30621B-SMA	CP-25	121	PT-CA6701SMA
30621V-SMA	CP-25	121	PT-CA6702SMA
30621V-SMA	CP-25	121	PT-CA6702SMA
30621J-SMB	CP-26	123	PT-CA6701SMB
30621K-SMB	CP-26	123	PT-CA6701SMB
30621W-SMB	CP-26	123	PT-CA6702SMB
30621X-SMB	CP-26	123	PT-CA6702SMB
30621C-SMC	CP-27	124	PT-CA6701SMC
30621D-SMC	CP-27	124	PT-CA6701SMC
30621Z-SMC	CP-27	124	PT-CA6702SMC
30621Y-SMC	CP-27	124	PT-CA6702SMC
30621L-SMD	CP-28	122	PT-CA6701SMD
30621M-SMD	CP-28	122	PT-CA6701SMD
30621AA-SMD	CP-28	122	PT-CA6702SMD
30621BB-SMD	CP-28	122	PT-CA6702SMD

No violations or deviations were identified in this portion of the inspection.

6. Exit Interview

The NRC inspectors met with licensee representatives (denoted in paragraph 1) on January 21, 1983, and summarized the purpose and findings of the inspection.