

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-362/82-14

Docket No. 50-362

License No. CPPR-98

Safeguards Group _____

Licensee: Southern California Edison Company

2244 Walnut Grove Avenue

Rosemead, California 91770

Facility Name: San Onofre Unit 3

Inspection at: Construction Site, San Diego County, California

Inspection conducted: July 12-16, 1982

Inspectors: W. J. Wagner
W. J. Wagner, Reactor Inspector

7-26-82
Date Signed

G. Hernandez
G. Hernandez, Reactor Inspector

7-26-82
Date Signed

G. Perez
G. Perez, Reactor Inspector

7-26-82
Date Signed

Approved by: W. J. Wagner
for J. H. Eckhardt, Acting Chief
Reactor Projects Section 1

7-26-82
Date Signed

Summary:

Inspection on July 12-16, 1982 (Report No. 50-362/82-14)

Areas Inspected: Routine, unannounced inspection by regional based inspectors of construction activities involving safety related components and structures, and licensee action on previously identified inspection items. The inspection involved 96 onsite inspection hours by three NRC inspectors.

Results: No items of noncompliance or deviations were identified.

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DETAILS

1. Individuals Contacted

a. Southern California Edison Company (SCE)

- *D. B. Schone, Project QA Supervisor
- D. C. Stonecipher, Construction QA Supervisor
- *G. P. Vaslos, QA Engineer
- N. M. Ferris, QA Engineer
- *V. A. Gow, QA Engineer
- J. J. Wambold, Construction Manager

b. Bechtel Power Corporation (Bechtel)

- *J. H. McCarty, Project QA Manager
- *J. W. Sheppard, Project QA Supervisor
- J. A. MacKinnon, Project Engineering Coordinator
- E. T. Molnar, Project Construction Manager
- B. O. Faber, Project QC Engineer
- *K. G. Hess, Assistant Project Manager
- V. V. Haywood, Jr., Construction Engineer
- J. D. Hansen, QA Engineer

*Denotes those attending exit interview on July 16, 1982.

2. Licensee Action on Previous Inspection Findings

- a. (Closed) Followup Item (50-362/82-11/04): Bechtel Welding Procedure Specification (WPS) did not depict a typical joint design when utilizing AWS prequalified designs.

Discussion with cognizant welding and quality control engineers indicated that the WPS is used in conjunction with the Bechtel General Welding Standards (GWS). The General Welding Standards provided supplementary welding information including depiction of the various AWS prequalified joint designs. Both the WPS and GWS are readily available to the welder and welding engineer at or near the work area. The inspector has no further questions on this subject.

This item is closed.

- b. (Closed) Followup Item (50-362/82-11/02): Unidentified shim material.

A sample of the undocumented shim material was provided by the licensee for analysis by an independent NRC contract laboratory to determine if the material met the requirements for A-36 steel. On July 22, 1982 the material analysis was received from the laboratory (Franklin Research Center) which indicated that the material was within ASTM A-36 material specifications.

This item is closed.

3. Safety-Related Pipe Supports

- a. The following safety-related snubbers (mechanical shock suppressors) were selected for inspection:

| <u>Snubber Number</u> | <u>Load Classification</u> |
|-----------------------|----------------------------|
| S3-RC-015-H-017 | 35,000 lbs. |
| S3-SI-038-H-076 | 1,000 lbs. |
| S3-RC-016-H-008 | 100 lbs. |
| S3-SI-045-H-016 | 35,000 lbs. |
| S3-RC-022-H-004 | 1,000 lbs. |
| S3-SI-044-H-009 | 35,000 lbs. |
| S3-SI-044-H-006 | 35,000 lbs. |

The snubbers were visually examined and appeared to be in satisfactory condition. No deterioration or corrosion were evident. The extension rods, support plates, and connecting rods were not bent, deformed or loose. The connecting joints and moving parts were free from foreign material, and all bolts, nuts, washers and fasteners were tight and secure.

No items of noncompliance or deviations were identified.

- b. The following safety-related fixed pipe supports were inspected:

| <u>Spring Hanger Number</u> | <u>Rated Load</u> |
|-----------------------------|-------------------|
| S3-SI-044-H-008 | 3780 - 6480 lbs. |
| S3-RC-072-H-005 | 3175 - 5215 lbs. |
| S3-SI-012-H-001 | 221 - 378 lbs. |
| S3-SI-044-H-002 | 3780 - 6480 lbs. |
| S3-SI-145-H-004 | 567 - 939 lbs. |

The hanger rods for supporting the spring hangers were as required for the size of pipe being supported. Each spring hanger had the appropriate "hot" or "cold" position indicated for the piping system being supported.

No items of noncompliance or deviations were identified.

- c. The inspector also examined the following installed solid mount fixed pipe supports:

S3-SI-021-H-036
S3-SI-133-H-062
S3-SI-114-H-006
S3-SI-020-H-086
S3-FS-007-H-020

No deterioration, corrosion or deformation of the pipe supports were evident. Sliding supports were properly lubricated, and any pipe movements will not cause contact with other pipes, supports or other equipment or components.

No items of noncompliance or deviations were identified.

- d. Review of Quality Assurance Records

The inspector reviewed the records for five snubbers and five fixed pipe supports. These pipe support records were from those selected for inspection as reported in paragraphs a and b. Documentation reviewed included Construction Inspection Data Reports (CIDR's) for pipe supports, CIDR's for integral attachments, CIDR's for mechanical shock arrestor assemblies, field welding checklists, welder qualifications and pipe support assembly drawings. All CIDR's and welding checklists contained the necessary QC and ANI approvals as required.

No items of noncompliance or deviations were identified.

4. Safety Related Piping-Review of Quality Records

The inspector reviewed quality records for safety related piping activities (except welding) occurring outside of the reactor coolant pressure boundary, to ascertain whether these records reflected work accomplishment consistent with NRC and PSAR requirements. The following pipe spools and their applicable quality records were examined:

| <u>Pipe Spool No.</u> | <u>Line Designation</u> | <u>Serial Number</u> |
|-----------------------|-------------------------|----------------------|
| a. 3-CS-047-030 | S3-1206-ML-047 Sht. 4 | N4850 |
| b. 3-CS-041-1 | S3-1206-ML-041 Sht. 4 | N7130 |
| c. 3-SI-087-11 | S3-1204-ML-087 Sht. 3 | N7842 |
| d. 3-CC-064-2 | S3-1203-ML-064-Sht. 1 | N4974 |

The quality records reviewed for the above pipe spools included the following:

- . Code Data Reports
- . Certified Test Reports
- . Welding Material Certifications (Vendor)
- . Welding Records (Vendor)
- . Receipt Inspection Records
- . Product Certifications - Chemical/Physical Analysis
- . Nondestructive Examination Reports
- . Nonconformance Reports
- . Welder and Quality Control Inspector Qualification Records

No items of noncompliance or deviations were identified.

5. Safety Related Structures - Weld Records

The following safety related structures located outside of containment were selected and their respective quality related records reviewed. These records were specifically reviewed to assure that nondestructive examinations of field welds were performed as required by licensee procedures, specifications, or code requirements:

| <u>Description</u> | <u>NDE Performed</u> |
|-------------------------------------|--------------------------------------|
| a. Fuel Handling Sump | Vacuum Box & Liquid Penetrant |
| b. Fuel Rack Base Plates | Liquid Penetrant |
| c. End Caps for Spare Sleeves | Liquid Penetrant & Magnetic Particle |
| d. Containment Normal Exhaust Valve | Radiographic Examination |

The quality records reviewed for the above components included field welding checklists, drawings, nonconformance reports, construction inspection data reports, and nondestructive examination reports.

No items of noncompliance or deviations were identified.

6. Exit Meeting

The inspectors met with licensee representatives (denoted in paragraph 1) on July 16, 1982. The scope of the inspection and findings as detailed in this report were discussed.