

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-362/82-30

Docket No. 50-362 License No. CPPR-98 Safeguards Group \_\_\_\_\_

Licensee: Southern California Edison Company

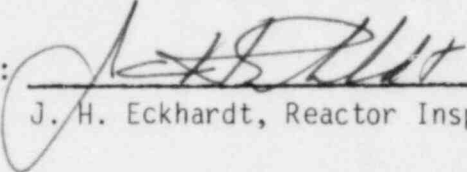
2244 Walnut Grove Avenue

Rosemead, California 91770

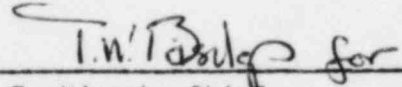
Facility Name: San Onofre Unit 3

Inspection at: Construction Site, San Diego County, California

Inspection conducted: October 25-29, 1982

Inspectors:  11/24/82  
J. H. Eckhardt, Reactor Inspector Date Signed

\_\_\_\_\_  
Date Signed

Approved by:  for 11/24/82  
D. F. Kirsch, Chief Date Signed  
Reactor Projects Section 3

Summary:

Inspection on October 25-29, 1982 (Report No. 50-362/82-30)

Areas Inspected: Routine, unannounced inspection by a regional based inspector of construction activities involving examination of installed instrumentation, records review of instrumentation and electrical components and cables, and examination of the onsite design change program. The inspection involved 30 onsite inspection hours by one NRC inspector.

Results: No deviations or items of noncompliance were identified.

## DETAILS

### 1. Persons Contacted

#### a. Southern California Edison Company (SCE)

- \*D. B. Schone, Assistant QA Manager
- D. C. Stonecipher, Construction/Maintenance QA/QC Supervisor
- W. M. Schwab, Construction Manager
- \*G. Vaslos, Senior QA Engineer
- \*N. M. Ferris, QA Engineer
- R. Sarouhan, QA Engineer
- \*S. Moy, Engineer
- \*C. Trenkle, Construction Engineer

#### b. Bechtel Power Corporation (Bechtel)

- \*J. W. Sheppard, Project Field QA Engineering Supervisor
- \*R. Reinsch, Lead QA Engineer
- J. Taylor, QA Engineer
- J. Arora, I and C Lead Field Engineer
- K. Groom, Lead Piping Staff Engineer
- G. Aller, Assistant Lead Piping Staff Engineer

\*Denotes those attending exit meeting.

### 2. Examination of Installed Instrumentation Components

The inspector examined the following installed instrumentation components to ascertain compliance with applicable construction specifications, work plan procedures and QC instructions, and drawings:

<u>Instrument</u>	<u>Type</u>	<u>Isometric No.</u>	<u>Function</u>
3PT-0101-3	Transmitter	FGD-J3-PT-0101-3	Pressurizer Pressure
3PI-0101-3	Indicator (Control Room)		Pressurizer Pressure
3LT-0110-1	Transmitter	FGD-J3-LT-0110-1	Pressurizer Level
3LT-0110-2	Transmitter	FGD-J3-LT-0110-2	Pressurizer Level
3LI-0110A1	Indicator (Control Room)		Pressurizer Level
3TI-0122-1	Indicator (Control Room)		Hot leg temp. - loop 2(s)
3RT-7804-1	Transmitter		Containment Airborne Monitor

The particular attributes examined included damage, proper mounting, location, tubing separation, tubing routing and slope, and proper component serial number.

No deviations or items of noncompliance were identified.

3. Electrical Component Records Review

The inspector reviewed the quality records associated with selected electrical components to ascertain compliance with applicable storage, installation, testing, and maintenance requirements. The components and records reviewed are as follows:

- a. Auxiliary Feedwater Pump Motor (S3-1305-MP141) - Construction Inspection Data Report (CIDR) for Installation (WPP/QCI-300) and CIDR for Alignment of Rotating Equipment (WPP/QCI-301). This pump was subsequently removed and reinstalled in accordance with a startup work permit.
- b. Component Cooling Water Pump Motor (S3-1203-MP024) - CIDR for Installation, CIDR for Equipment Testing, and Maintenance and Test Records.
- c. Station Batteries and Racks (3AR3DB008 A and B, 3AR3DB009 A and B) - CIDR for Installation, Special Storage Records, Torque Wrench Calibration Records, and Torque Records (rack rails, seismic rods and brackets, battery connectors, and terminal plates).
- d. Battery Chargers (3AR3BB001, 3BR3BB002, 3CR3BB003, and 3DR3BB004) - Supplemental Data Report (SDR) for Electrical Equipment Installation.
- e. 480 v Load Centers (3B04 and 3B06) - SDR for Electrical Equipment Installation, Electrical Equipment Report, and Maintenance and Testing Records for Load Centers, Transformers, and Disconnect Switches.
- f. ESF 480 v Motor Control Center (3BR3BZ01) - SDR for Electrical Equipment Installation, and Maintenance and Testing Records.
- g. 125 v DC Panels (3D1, 2, 3, and 4) - SDR for Installation, and Maintenance and Testing Records.
- h. Limitorque Motor Operator for 3HV9330 - CIDR for Installation, CIDR for Maintenance.

No deviations or items of noncompliance were identified.

4. Electrical and Instrumentation Cable Records Review

Quality records for selected electrical and instrumentation cables for the components identified in Paragraphs 2 and 3 above were reviewed. These records included the Cable Pulling Cards and Termination Cards for the cables.

No deviations or items of noncompliance were identified.

5. On-Site Design Change Program

The inspector reviewed the on-site design change program to ascertain compliance with WPP/QCI-018, Rev. 13. To evaluate the program, the inspector reviewed recent Unit 3 on-site design changes for proper approval and engineering review. The following three changes were then examined in the field to ensure the work had been performed as specified on the Field Change Requests (FCR):

- a. FCR P-34973 - This FCR rerouted pipe number S3-1201-ML-049-3/4"-A-EE0, to avoid interference with pressurizer heater removal if necessary, by adding two 45 degree bends in the pipe. This change appeared completed as specified.
- b. FCR S-10141 - This FCR modified pipe support assembly S3-CS-018-H001 to avoid interferences. This change appeared completed as specified.
- c. FCR S-10075 - This FCR specified welding of barriers to support assembly S3-RC-015-H018 to provide separation between redundant instrumentation tubing runs. This FCR was subsequently determined not to be needed due to an additional modification to the support and rerouting of the instrumentation tubing.

The on-site design change program appeared to be controlled per the requirements of WPP/QCI-018. No deviations or items of noncompliance were identified.

6. Exit Meeting

The inspector met with licensee representatives (denoted in paragraph 1) on October 29, 1982. The scope of the inspection and findings as detailed in this report were discussed.