

U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

REGION V

Report No. 50-361/81-25

Docket No. 50-361 License No. CPPR-97 Safeguards Group \_\_\_\_\_

Licensee: Southern California Edison Company  
P. O. Box 800  
224 Walnut Grove Avenue  
Rosemead, California 91770

Facility Name: San Onofre Unit 2

Inspection at: San Onofre, San Diego County, California

Inspection conducted: September 15 to 25, 1981

Inspectors: G. B. Zwetzig for October 16, 1981  
G. W. Johnston, Resident Inspector - Trojan Date Signed

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Date Signed

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Date Signed

Approved By: G. B. Zwetzig October 16, 1981  
G. B. Zwetzig, Chief, Reactor Operations Date Signed  
Projects Section 1, Reactor Operations  
Projects Branch

Summary:

Inspection on September 15 to 25, 1981 (Report No. 50-361/81-25)

Areas Inspected: Routine, resident inspection of applicant's preoperational test program, applicant's action on inspector identified items and an item of noncompliance, TMI Task Action Plan items, and independent inspection effort. The inspection involved 37 inspector-hours on-site by one NRC inspector.

Results: Of the four areas inspected, no items of noncompliance or deviations were identified.

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## DETAILS

### 1. Persons Contacted

#### a. Southern California Edison

- \*G. A. Chavez, Startup Supervisor
- \*P. A. Croy, Project Quality Assurance (QA) Supervisor
- \*C. R. Horton, Startup QA Supervisor
- \*T. O. Gray, Project QA
- J. J. Pantaleo, Startup QA
- P. King, Startup QA
- W. Lazear, Startup QA

#### b. Bechtel Power Corporation

- D. Bye, Startup Engineer

In addition, operating personnel, craftsmen, and engineers were also contacted during the course of the inspection.

\*Denotes those attending the exit meeting on September 25, 1981.

### 2. Plant Status

The licensee reports that the plant is 99 percent complete as of July 29, 1981.

### 3. Preoperational Test Observations

The inspector observed selected portions of Test 2PE-225-01, High Pressure Safety Injection. During the conduct of the test, the inspector observed that the personnel conducting the test were using the latest revision of the test procedure and were following the procedure. The inspector also verified by observation that the test prerequisites were met; that proper lineup of plant systems required for the test were complete; and that test equipment was calibrated and in service prior to commencement of the test.

No items of noncompliance or deviations were identified.

### 4. TMI Task Action Plan Items

The following items requiring action by the applicant in response to NUREG-0737 and NUREG-0712 (Safety Evaluation Report for San Onofre Nuclear Generating Station, Units 2 and 3), Supplements 1 and 2 were examined by the inspector to verify implementation.

I.A.1.2. Shift Supervisor Administrative Duties

The applicant has implemented Station Orders S023-0-4 and S023-0-1 which establish administrative controls for the activities of operating personnel and delineate the responsibilities, duties, and authority of the Watch Engineer.

I.A.1.3 Shift Manning

Operating Instruction S023-0-14 describes the minimum required manning and the actual manning as proposed by the applicant. The minimum manning conforms to the guidelines in NUREG-0737 and to the requirements in the Standard Technical Specifications.

I.C.2 Shift and Relief Turnover Procedures

Operating Instruction S023-0-10, Operations Shift Turnover Procedures, provides instructions and checklists to assure that critical plant parameters are within allowable limits, all systems essential to the prevention and mitigation of operational transients and accidents are available and properly aligned, and that systems and components that are in a degraded mode of operation permitted by the Technical Specifications are identified.

I.C.3. Shift Supervisor Responsibilities

This item is covered under I.A.1.2.

I.C.4. Control Room Access

Station Order S023-0-4, Station Operations, assigns the authority and responsibility for limiting control room access to the Watch Engineer. The procedure also delineates the line of succession, and limits the succession to those persons possessing a current senior reactor operator license.

II.E.1.2. Auxiliary Feedwater Initiation and Indication

The inspector examined installed equipment to verify that flow indication in each train of the Auxiliary Feedwater System (AFWS) was available in the control room. The inspector also examined the drawings and associated equipment of the AFWS to determine that the automatic initiation system, logic, and circuitry met the requirements of NUREG-0578, Section 2.1.7.a, and NUREG-0737.

5. Licensee Action on Previous Inspection Findings

The inspector examined the action taken by the applicant on previously identified concerns:

(Closed) Followup Item (50-361/81-03-01): The inspector examined the SCE Engineering evaluation of the failure of the Low Pressure Safety Injection Valve and found no further concerns.

(Closed) Followup Item (50-361/81-03-02): The inspector verified that the applicant conducted a walkdown of low temperature systems subject to thermal expansion.

(Closed) Followup Item (50-361/81-05-02): The applicant has completed the evaluation of the Main Steam Line support failure. The inspector examined portions of the report to confirm the analysis evaluated stresses affecting the piping.

6. Followup on Item of Noncompliance

The inspector examined corrective action taken by the applicant in response to an item of noncompliance in the area of review and updating of preoperational test procedures prior to performance. The item of noncompliance concerned a procedure (2HA-102-01) for thermal expansion measurements. The procedure was corrected by review against the latest design documents and the issuance of Test Change Notices.

The applicant also included a stress engineer from the design group for each team that took thermal expansion data. Thirty measurements added by the procedure revision, and not taken during the original ambient temperature condition, were obtained when the system was returned to ambient.

Training sessions for Startup Engineers were conducted to emphasize the requirement in Startup Test Instruction TI-2, Paragraph 5.2.2., that requires a detailed review of test procedures. This item of noncompliance is closed. (50-361/81-03-04)

7. Exit Meeting

On September 25, 1981, the inspector met with applicant representatives (identified in Paragraph 1) to discuss the scope and findings of the inspection.