U.S. NUCLEAR REGULATORY COMMISSION

REGION V

Report Nos. 50-206/85-04, 50-361/85-03, 50-362/85-03

Docket Nos. 50-206, 50-361, 50-362

License Nos. DPR-13, NPF-10, NPF-15

Licensee: Southern California Edison Company
P. O. Box 800
2244 Walnut Grove Avenue
Rosemead, California 91770

Facility Name: San Onofre Units 1, 2 and 3

Inspection at: San Clemente, California

Inspection conducted: January 14-18, 1985

Inspectors: _____ 2/7/85
B. Haist, Reactor Inspector Date Signed

_____ 2/7/85
R. Kanow, Reactor Specialist Date Signed

Approved By: _____ 2/7/85
P. Johnson, Chief, Reactor Projects Section 3 Date Signed

Summary:

Inspection on January 14-18, 1985 (Report Nos. 50-206/85-04, 50-361/85-03 and 50-362/85-03)

Areas Inspected: Routine, unannounced regional based inspection of Units 1, 2 and 3 operations including the following areas: Surveillance Testing and Calibration Control Program; inservice testing program; and licensee action to improve operator system knowledge. The inspection involved 68 inspection hours onsite by two NRC inspectors (29 hours - Unit 1; 17 hours - Unit 2 and 22 hours - Unit 3).

Results: No violations or deviations were identified.

Details

1. Persons Contacted

*H. B. Ray, Vice President and Site Manager
*H. E. Morgan, Operations Manager
*D. E. Shull, Maintenance Manager
*H. L. Mathis, Manager, Nuclear Training
P. A. Croy, Manager, Compliance
*R. J. Mette, Supervisor, Nuclear Training
*J. J. Wambold, Maintenance Manager
*T. A. Mackey, Jr., Supervisor, Compliance
W. Brush, Supervisor Instrumentation
D. Lokker, Supervisor of Coordination
M. Trillo, Senior Reactor Operator
G. Mueller, Operations Surveillance Coordinator
R. Miller, Operations Surveillance Coordinator
J. Grimes, Maintenance Planning Supervisor
F. Jones, Compliance Engineer
*M. P. Short, Project Manager, Unit 1
*P. King, Operations Quality Assurance Supervisor
*J. R. Pfefferle, Compliance Engineer
*M. Speer, Compliance Engineer
J. Cole, Maintenance Planner
J. Sargent, Instrumentation & Control Supervisor (Unit 1)
J. Anaya, Supervisor of Nuclear Plant Instrumentation (Unit 1)
J. Schramm, Coordinating Supervisor (Unit 1)
J. Anderson, Surveillance Coordinator (Unit 1)
B. Savage, General Foreman/Planning Supervisor

*Denotes attendance at Exit Interview on January 18, 1985.

2. Surveillance Testing and Calibration Control Program

a. Review of Implementing Procedures

The inspectors reviewed the latest revisions of the following station procedures which define and implement the surveillance testing and calibration control program:

Procedure No.	Title
S0123-G-3	"Technical Specification Surveillance Requirements"
S0123-II-13.2	"Planning and Control of Surveillance Testing, Routine Calibration, and Inspection"
S01-XV-3.0 Rev. 1	"Technical Specification Surveillance Program Implementation"
S01-12.0-1	"Compliance Control"
S01-12.0-2	"Operating Surveillance Implementation"

S01-12.0-3 "Surveillance Requirements"

S0123-I-1.3 "Maintenance Documentation"

S0123-I-1.19 "Maintenance Department Technical Specification Surveillance Program Implementation"

The review also included discussions with personnel and management responsible for program development and implementation.

Based on this review, the inspectors verified that a program exists which controls surveillances and calibrations required by Technical Specifications through the use of inter-departmental surveillance log books and the computerized San Onofre Maintenance Management System. The inspector also verified that responsibilities have been delineated to ensure surveillance requirements have been satisfied.

No violations or deviations were identified.

b. Review of Surveillance Test and Instrument Calibration Records

The inspectors reviewed documentation for the following surveillance tests and instrument calibrations. Attributes examined included performance of surveillance or calibration within the proper time interval including available time extensions; completion of all applicable elements with acceptable results; review and signoff by appropriate supervisor and quality assurance, where required; verification of restoration and post maintenance checks; and use of calibrated instruments. Surveillance records were selected at random from the operations, maintenance, and instrument and controls groups. Calibration records were selected from the Instrument and Controls group.

Surveillances - Instrumentation and Controls:

Unit	Surveillance Procedure No.	Title	Date of Surveillance
1	S01-II-1.4.19	"Instrument and Test Procedure"	9/26/84
1	S01-II-1.1	"Reactor Plant Instrumentation"	11/11/84 11/20/84 11/30/84 12/29/84
1	S01-II-1.250	"Power Relief Valves CV-545 and CV-546 Bistable Calibration and Testing"	9/26/84 10/22/84 11/24/84 12/18/84
1	S01-II-1.80	"Containment Isolation System Channel Test"	10/19/84 11/20/84 12/21/84

1	S01-II-1.233	"Pressurizer Safety Relief and Isolation Valve Position Indicators Test/Calibration"	11/29/83
1	S01-II-1.2	"Reactor Plant Instrumentation Test"	10/11/84 10/20/84 11/7/84 12/5/84
1	S01-II-1.73	"Containment Isolation System"	9/14/83
1	S01-II-1.4.15	"Containment System Calibration"	10/19/84

Surveillances - Operations:

Unit	Surveillance Procedure No.	Title	Date of Surveillance
1	S01-12.1-2	"Nuclear Flux Test"	1/1-16/85
1	S01-12.3-10	"Diesel Generator Load Test"	10/17/84 10/22/84 10/26-27/84 11/15/84 11/29/84 12/16/84 12/26/84 1/8/85
2	S023-3-3.24.1	"Fuel Handling Isolation - Manual - Train A"	12/4/83 10/30/84
2	S023-3-3.24.1	"Fuel Handling Isolation - Manual - Train B"	11/29/83 10/30/84
2	S023-3-3.27.1	"Boron Injection Flow Paths" (shutdown)	12/26/84 1/2/85 1/9/85
3	S023-3-3.27	"Boron Injection Flow Paths" (operating)	12/12/84 12/19/84 1/2/85 1/9/85
3	S023-3-3.5	"Moveable Control Assemblies"	12/1/84 12/7/84 1/5/85
2	S023-3-2.19.1	"Manual Reactor Trip"	3/12/84 3/25/84 1/5/84
3	S023-3-2.19.1	"Manual Reactor Trip"	11/30/84

3	S023-3-3.28	"Remote Shutdown Monitoring Instrumentation"	10/3/84 11/28/84 12/25/84

Surveillances-Maintenance:

Unit	Surveillance Procedure No.	Title	Date of Surveillance
1	S01-I-2.2	"Refueling Interval Diesel Generator Inspection"	3/19/84 5/17/84 9/25/84 9/27/84 10/13/84
1	S01-I-2.22	"Six-month Fire Protection Systems Functional Test"	9/17/84 9/24/84 9/28/84 10/21/84 10/19/84
2	S023-I-2.34	"Shutdown Cooling System Relief Valve Pressure Setpoint"	12/14/83
3	S023-I-2.12	"Station Batteries Weekly Inspection"	1/15/85 1/8/85
2	S023-I-2.15	"Refueling Interval Battery Service Test"	12/10/84
2	S023-I-2.11	"18-Month Diesel Generator Inspection"	12/10/84

Calibrations and Functional Tests-Instrumentation and Controls:

Unit	Procedure No.	Title	Date Performed
3	S023-II-9.504	"Pressurizer Pressure Wide Range Channel Calibration"	1/15/84
3	S023-II-5.5 - 5.8	"Linear Power Level High - Channel Calibration"	5/30/84
3	S023-II-1.1	"Reactor Plant Protection System Channel Functional Test"	12/21/84
3	S023-II-5.5	"Nuclear Instrumentation Safety Channel A Functional Test and Channel Calibration"	12/6/84
3	S023-II-5.6	"Nuclear Instrumentation Safety Channel B Functional Test and Channel Calibration"	1/7/85

3	S023-II-5.7	"Nuclear Instrumentation Safety Channel E Functional Test and Channel Calibration"	12/7/84
3	S023-II-5.8	"Nuclear Instrumentation Safety Channel D Functional Test and Channel Calibration"	12/7/84
2	S023-II-1.2	"ESFAS and RP Instrumentation Channel Calibration"	12/11/84
3	S023-II-9.546	"Containment Atmosphere Temperature Calibration"	4/9/83
2	S023-II-9.511	"Containment Pressure PPS & ESFAS Calibration"	2/13/84
2	S023-II-9.5	"Excore Neutron Monitor Safety Channel Calibration"	7/1/83

This review revealed that surveillances and calibrations had been performed within the frequency required by Technical Specifications, and that the results had been reviewed by the appropriate level of management and required departments. Additionally, those items that had failed to meet the required acceptance criteria were resolved and documented in accordance with procedure requirements. Calibrated instruments were used to perform the surveillances and calibrations where required.

No violations or deviations were identified.

3. Inservice Testing Program - Review of Implementing Procedures

The inspector reviewed the following documents which define and implement the Inservice Testing Program for Pumps and Valves. Attributes examined included the establishment of a program for scheduling and tracking testing requirements; the assignment of responsibility for completion of testing; the establishment of detailed test procedures; and the establishment of methods and responsibilities for the review and evaluation of test results and the reporting of deficient conditions.

Procedure No.	Title
S01-V-2.14	Inservice Testing of Pumps Program (Unit 1)
S01-V-2.15	Inservice Testing of Valves Program (Unit 1)
S023-V-3.4.0	Inservice Testing of Pumps Program (Units 2/3)
S023-V-3.5.0	Inservice Testing of Valves Program (Units 2/3)
N/A	IST Program Weekly Status Report and Monthly Schedule

No violations or deviations were identified.

4. Licensee Action to Improve Operator Knowledge

The inspector discussed with licensee representatives actions taken during the previous year to improve licensed and unlicensed operator knowledge of engineered safety systems. Actions taken include the assignment of an SRO-licensed on-shift training person to provide a mechanism for ongoing training. Since October, 1984, this person has provided training on the use of administrative procedures, design changes, and reportable and non-reportable events that occur on-shift, including the recent isolation of instrument air to the reactor cavity seal and spent fuel pool gate on November 19, 1984. The addition of on-shift training should improve operator system knowledge and knowledge of events that occur on other shifts and is considered an appropriate adjunct to the formal training program.

5. Management Meeting

The inspectors met with the licensee representatives denoted in paragraph 1 at the conclusion of the inspection on January 18, 1985. The inspectors summarized the scope and findings of the inspection. The findings were acknowledged by the licensee.