



Southern California Edison Company

23 PARKER STREET
IRVINE, CALIFORNIA 92718

June 22, 1990

F. R. NANDY
MANAGER OF NUCLEAR LICENSING

TELEPHONE
(714) 587-5400

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Subject: Docket No. 50-206
Ninth Edition of the Integrated Implementation Schedule
San Onofre Nuclear Generating Station, Unit 1

In accordance with License Condition 3.J to Provisional Operating License DPR-13, this letter provides the ninth edition of the San Onofre Unit 1 Integrated Implementation Schedule (IIS).

If there are any questions on the enclosure or if you require additional information, please contact me.

Very truly yours,

Enclosure: As stated

cc: J. B. Martin, Regional Administrator, NRC Region V
C. W. Caldwell, NRC Senior Resident Inspector
J. E. Tatum, NRR SONGS 1 Project Manager

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ENCLOSURE

INTEGRATED IMPLEMENTATION SCHEDULE SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 1

**NINTH EDITION
JUNE 1990**

Introduction

License Condition 3.J, "Integrated Implementation Schedule" (IIS), requires SCE to follow the IIS Program Plan issued in License Amendment No. 98 on April 20, 1987. Section V.A of the Plan states that SCE will update Schedules A, B, and C semi-annually and also: summarize progress in implementing NRC requirements concerning plant modifications; identify changes since the last report; summarize the reasons for schedule changes associated with Schedules A and B; and, indicate the expected percentage allocation of resources on Regulatory and Betterment projects for the next refueling/modification outage.

This report, the ninth edition of the IIS, provides the required status update for the period November 1989 through May 1990. The eighth edition of the IIS was provided to the NRC by letter, F. R. Nandy to NRC Document Control Desk, dated November 16, 1989.

The current Schedules A, B, and C are attached as Attachments 1, 2 and 3, respectively.

Progress In Implementing NRC Requirements

Since the last submittal (IIS Eighth Edition) in November 1989, Unit 1 did not have a refueling or modification outage; one 48 hour maintenance outage occurred to repair backup nitrogen regulators (LER No. 89-028).

In the Eighth Edition of the IIS letter, SCE reported that the Automatic Vent System (AVS) for the Boric Acid System was substantially completed and would receive final testing by November 30, 1989. As reported in the letter, F. R. Nandy (SCE) to the NRC, dated March 5, 1990, the final testing which was completed on November 30, revealed that additional design work was required. Consequently, the AVS modifications will be completed in the Cycle 11 refueling outage.

**Changes Since The Last Report And The Reasons For Schedule
Changes Associated With Schedules A and B**

On January 2, 1990, the NRC issued "Order Confirming Licensee Commitments on Full-Term Operating License Open Items - San Onofre Nuclear Generating Station, Unit 1 (TAC No. 11232)". This Order resulted in several Cycle 11 and Cycle 12 modifications being moved from Schedule B to Schedule A. Also the Order added two new modifications to Schedule A for Cycle 11. The changes due to the NRC Order are as follows:

**NRC ORDER - UPGRADED CYCLE 11 SCHEDULE B TO SCHEDULE A
MODIFICATIONS**

- CCW Permanent Fix
- Charging Pump Motor Rewind
- Design Basis Precipitation Modifications (Rooftop
Drainage Modifications - Scuppers)
- 480V Overload Modifications
- EQ of Hot Leg Recirculation System
- Mid-loop Water Level Indication (RWLI)

**NRC ORDER - UPGRADED CYCLE 12 SCHEDULE B TO SCHEDULE A
MODIFICATIONS**

- Safety Injection Recirculation System Modifications
- Safety Injection System Improvements
- NUREG-0612 Turbine Deck Steel Plating
- Safety Parameter Display System
- Control Room Design Review Modifications (All Groups)
- Upgrade Core Exit Thermocouples (To be implemented with
Schedule A RVLIS)
- Control Room Habitability
- CVCS Valves MOV-LCV-1100 B, C, and D
- Addition of Synchrocheck Relays to Emergency Diesel
Generators
- Undervoltage Relays for Protection from Degraded Grid
Voltage (SEP VIII-1.A)
- Waste Gas Decay Tank Monitoring Instrumentation
- Inservice Testing Modifications

NRC ORDER - NEW CYCLE 12 SCHEDULE A MODIFICATIONS

- Steam Generator Overfill
- Single Failure Analysis Separation & RG 1.97, including
non-single failure

SCE has added five new modifications to Schedule B as the result of plant operating events which were the subject of Licensee Event Reports (LER). These modifications are as follows:

NEW CYCLE 11 SCHEDULE B MODIFICATIONS - LERS

CV-517 and CV-518 actuator upgrades committed to in LER No. 90-05
HV-851A and HV-851B backup nitrogen upgrade committed to in LER No. 89-28
Auxiliary Feedwater venturi modification committed to in LER No. 89-31
Spent Fuel Pool cooling pump addition (short term) committed to in LER No. 90-10

NEW CYCLE 12 SCHEDULE B MODIFICATIONS - LERS

Spent Fuel Pool Cooling pump modification (long term - exact modifications are yet to be determined) committed to in LER No. 90-10 and SCE Amendment Application No. 183, dated May 16, 1990

In addition, two new Schedule B modifications have been scheduled for Cycle 11: upgrades to valves SV2900 and SV3900 which resulted from the Safety Injection System review which was conducted as described in the letter, M. O. Medford to NRC, dated July 25, 1988; and replacement of the Utility Bus panel, which was identified during assessments of NRC Bulletin 88-10, initiated as a result of the letter, M. O. Medford to the NRC, dated March 30, 1989.

Also, one new Schedule B modification has been scheduled for Cycle 12: the Emergency Response Data System committed to in the letter, Mr. Harold B. Ray to the NRC, "Response to Generic Letter 89-15", dated December 26, 1989.

All the modifications which were added to Schedules A and B will be completed in the respective Cycle 11 or Cycle 12 Refueling outage. It is not possible to move any of the Cycle 12 projects to Cycle 11, since the outage is about to begin. Since all remaining projects are scheduled for Cycle 12, there was no need to run the Westinghouse Analytical Ranking Program (WARP) to rank the safety significance of each modification. The rankings are only used to determine the priority of scheduling work that could not be completed in the next (Cycle 11) refueling outage.

**Expected Percentage Allocation Of Resources On Regulatory And
Betterment Projects For The Next Refueling/Modification Outage**

All (100%) of the resource allocation of the next refueling is on regulatory projects; there will be no resource allocation on betterment projects.

ATTACHMENT 1

INTEGRATED IMPLEMENTATION SCHEDULE A MODIFICATIONS ASSOCIATED WITH RULE, REGULATION OR ORDER

Cycle 11

Anticipated Transient Without Scram - Diverse Turbine Trip
CCW Permanent Fix
Charging Pump Motor Rewind
Design Basis Precipitation Modifications (Rooftop Drainage
Modifications - Scuppers)
480V Overload Modifications
EQ of Hot Leg Recirculation System
Mid-loop Water Level Indication (RWLI)

Cycle 12

Reactor Vessel Level Indicating System
Simulator (Non-Outage Related) - Current Schedule is
February 1993
Safety Injection Recirculation System Modifications
Safety Injection System Improvements
NUREG-0612 Turbine Deck Steel Plating
Safety Parameter Display System
Control Room Design Review Modifications (All Groups)
Upgrade Core Exit Thermocouples (To be implemented with
Schedule A RVLIS)
Control Room Habitability
CVCS Valves MOV-LCV-1100 B, C, and D
Addition of Synchrocheck Relays to Emergency Diesel
Generators
Undervoltage Relays for Protection from Degraded Grid
Voltage (SEP VIII-1.A)
Waste Gas Decay Tank Monitoring Instrumentation
Inservice Testing Modifications
Vibration instrumentation for Diesel Fuel Oil Transfer
Pumps
Flow instrumentation for SI and RW Pumps
Steam Generator Overfill
Single Failure Analysis Separation & RG 1.97, including
non-single failure

ATTACHMENT 1 - (CONTINUED)

INTEGRATED IMPLEMENTATION SCHEDULE A
MODIFICATIONS ASSOCIATED WITH RULE, REGULATION OR ORDER
ONGOING EVALUATIONS REQUIRING SCE SUBMITTAL

<u>ITEM</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>SUBMITTAL DATE</u>
TMI	III.D.3.4	Control Room Habitability	June 29, 1990
SEP	V-11.B	Residual Heat Removal System Interlock Requirements	June 30, 1990
SEP	III-5.A III-5.B III-7.B V-5	Effects of Pipe Breaks on Structures, Systems, and Components Inside Containment, Pipe Break Outside Containment	July 31, 1990 (Structural Approach Description) July 31, 1991 (Complete Analysis)
SEP	VI-7.C.2 IX-3	Failure Mode Analysis	July 31, 1990
SEP	III-2 III-4A VII-3	Tornado Missiles and Wind Loading	August 30, 1990
SEP	VI-7.C.2 IX-3 RG 1.97	Provide an Integrated Resolution of Open Items	June 30, 1991
USI	A-46	Seismic Adequacy of Equipment (Plant Walkdowns)	September 1992
TMI	II.K.3.5	RCP Trip	To Be Determined
SEP	VIII-1.A	Adequacy of System Voltage	To Be Determined

ATTACHMENT 2

INTEGRATED IMPLEMENTATION SCHEDULE B
MODIFICATIONS ASSOCIATED WITH
NRC COMMITMENTS AND OTHER REQUIREMENTS

Cycle 11

CV517/518 Actuator Upgrades
HV851A/B Backup Nitrogen Upgrade
Auxiliary Feedwater Venturi Modification
Spent Fuel Pool Cooling Pump Addition (short term)
SV2900/SV3900 Valve Upgrade
Utility Bus Panel Replacement
Boric Acid Gas System Modifications

Cycle 12

Spent Fuel Pool Cooling Pump Modifications (long term -
exact modifications are to be determined)
Emergency Response Data System

Cycle 13

None

ATTACHMENT 2 - (CONTINUED)

INTEGRATED IMPLEMENTATION SCHEDULE B
MODIFICATIONS ASSOCIATED WITH
NRC COMMITMENTS AND OTHER REQUIREMENTS
ONGOING EVALUATIONS REQUIRING SCE SUBMITTAL

<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	<u>SUBMITTAL DATE</u>
TMI II.F.2	Inadequate Core Cooling Instrumentation	December 1, 1990
IPE	Integrated Plant Evaluation	November 1992

ATTACHMENT 3

INTEGRATED IMPLEMENTATION SCHEDULE C
MODIFICATIONS ASSOCIATED WITH BETTERMENT PROJECTS

Cycle 11

None

Cycle 12

To be determined

Cycle 13

To be determined