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March 23, 1987

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

Gentlemen:

Subject: Docket No. 50-206
Fourth Edition of the Integrated Living Schedule (ILS)
San Onofre Nuclear Generating Station
Unit 1

- References: A. Letter, M. O. Medford, SCE, to G. E. Lear, NRC, dated
October 14, 1986
- B. Letter, M. O. Medford, SCE, to J. A. Zwolinski, NRC, dated
August 29, 1985

The third edition of the ILS was submitted by Reference A. The proposed ILS Program Plan submitted with Reference B specifies that SCE will provide semi-annual updates of the schedules to the NRC. Accordingly, enclosed is the fourth edition of the ILS.

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

Very truly yours,

Enclosure

cc: R. F. Dudley, NRR Project Manager, San Onofre Unit 1
J. B. Martin, Regional Administrator, NRC Region V
F. R. Huey, NRC Senior Resident Inspector, San Onofre Units 1, 2 and 3

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April '87

INTEGRATED LIVING SCHEDULE
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 1

Fourth Edition

March, 1987

Introduction

Proposed License Condition 3.J, "Integrated Living Schedule of Backfits," requires SCE to follow the ILS Program Plan ("Plan"). The Plan specifies that periodic schedule updates be submitted to the NRC along with specific information regarding progress in implementing NRC requirements, changes since the previous report, reasons for schedule changes and the expected percentage allocation of resources on regulatory vs. betterment projects. This document is the fourth edition of the ILS which provides that information.

Progress in Implementing NRC Requirements

Since SCE's last submittal in October, 1986, SONGS 1 has not had a backfit outage. Work continues on projects scheduled for implementation during the next refueling/backfit outage scheduled for early 1988.

Of the two evaluations scheduled for completion on the Cycle X schedule, we submitted the SPDS design criteria this month. The next milestone for the Supplement 1 to NUREG-0737 projects is the submittal of the Control Room Design Review Report. The schedule for submittal has been extended from May 1, 1987 to August 14, 1987 due to the unanticipated workload associated with evaluating the SONGS 1 control room and a secondary review of the effort to ensure compliance with NRC review requests. This has been discussed and agreed with the NRC staff.

Changes Since Last Edition

There has been only one new project added to the ILS since our last submittal. This project is the FSA update required by 10 CFR 50.71(e). In accordance with the regulation, this project is due two years after our notification by the Director of NRR of the completion of the Systematic Evaluation Program.

Expected Allocation of Resources for Upcoming Outage

The refueling/backfit outage for Cycle X of plant operation is expected to have resources allocated approximately 70% to regulatory projects and 30% to betterment projects. This allocation reflects a balancing of resource allocation following the last refueling/backfit outage which was approximately 90% regulatory work.

Updated Schedules

Schedules A, B and C are attached.

ILS SCHEDULE A
(RULE, REGULATION OR ORDER)

CYCLE X

ANTICIPATED TRANSIENTS WITHOUT SCRAM
DIVERSE TURBINE TRIP

CYCLE XI

NONE

EVALUATION

FSA UPDATE

DECEMBER 30, 1988

ILS SCHEDULE B
(NRC COMMITMENTS AND OTHER REQUIREMENTS)

CYCLE X

AUTOMATION OF THIRD AUXILIARY FEEDWATER PUMP
REGULATED INSTRUMENT BUSES INDICATING LIGHTS
ON-SITE TOXIC GAS SOURCES MODIFICATIONS
IN-SERVICE TESTING DIFFERENTIAL PRESSURE INDICATORS
MAGNACRAFT RELAY REPLACEMENTS
AUTOMATIC VENT SYSTEM FOR BORIC ACID SYSTEM
REACTOR CAVITY SAFETY CAGE (OSHA)
CONTROL ROOM HVAC DUCT HEATERS
VITAL BUS 4 UNINTERRUPTIBLE POWER SUPPLY

CYCLE XI

UPGRADE OF CORE EXIT THERMOCOUPLES FOR DETECTION OF
INADEQUATE CORE COOLING
CONTROL ROOM AND TECHNICAL SUPPORT CENTER HVAC UPGRADES
CVCS VALVES MOV-LCV-1100 B, C, D CONTROLS MODIFICATIONS
WASTE GAS DECAY TANK MONITORING INSTRUMENTATION
STEEL DECKING UNDER TURBINE BUILDING NORTH EXTENSION
UNDervOLTAGE RELAYS FOR PROTECTION FROM DEGRADED GRID
VOLTAGE
AUTOMATIC TERMINATION OF SAFETY INJECTION PUMPS ON LOW
RWST LEVEL
REMOVAL OF AUTOMATIC REACTOR COOLANT PUMP TRIP ON SAFETY
INJECTION
ADDITION OF SYNCROCHECK RELAYS TO EMERGENCY DIESEL
GENERATORS

EVALUATION

CONTROL ROOM DESIGN REVIEW

AUGUST 14, 1987

ILS SCHEDULE C
(BETTERMENT PROJECTS)

CYCLE X

NUCLEAR INSTRUMENTATION SYSTEM REPLACEMENT
TURBINE VIBRATION DETECTION INSTRUMENTATION
MASONILIAN ISOLATION VALVE UPGRADES
RADIATION MONITOR SV-99 UPGRADE

CYCLE XI

CONTROL ROOM INSTRUMENT RACKS REPLACEMENT

GEH:8210F