Southern California Edison Company
23 PARKER STREET
IRVINE, CALIFORNIA 92718

July 2, 1993

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

Gentlemen:

Subject: **Docket Nos. 50-361 and 50-362**
Eighth Edition of the Integrated Implementation Schedule (IIS)
San Onofre Nuclear Generating Station Units 2 and 3

Reference: Letter from W. C. Marsh (SCE) to Document Control Desk (NRC), dated January 4, 1993; Seventh Edition of the Integrated Implementation Schedule (IIS).

Enclosures 1 through 3 provide the semi-annual update of the Eighth Edition of the Integrated Implementation Schedule (IIS) for the San Onofre Nuclear Generating Station (SONGS), Units 2 and 3. Enclosures 1 and 2 list, by outage, the Schedule A, B, and C projects for SONGS 2 and 3, respectively. Enclosure 3 lists the ongoing evaluations for major issues for SONGS 2 and 3.

A comparison to the Seventh Edition of the IIS (referenced) reveals that the following changes have occurred to the Cycle 7 and Cycle 8 schedules:

ACTION	UNIT	CYCLE	SCHEDULE	MODIFICATION
Completed	2	7	C	Replace Seismic Instrumentation (DCP 6792)
Completed	2	7	C	Fire Protection Panel Mods (DCP 6861)
Completed	2	7	C	UREA Formaldehyde System Removal (DCP 6728)
Deleted	2/3	7	B	FFCPD HUT Modifications (DCP 6773)
Sched Change	2/3	7	C to B	CR 63 electrical panel modifications (DCP 6605.08)
Sched Change	2/3	7	C to B	Install DG Turbo Pre Lube NRC IE Notice 85-32 (DCP 6754)
Added	2/3	7	B	Equipment Hatch Backup Power in accordance with NUMARC 91-06
Added/ Completed	2/3	7	B	Inverter Room Temperature Alarms in accordance with PRA sent to NRC (DCP 6831)

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The Steam Generator Overfill Protection System (SGOPS) has been deleted as noted in the seventh edition of the IIS letter, dated January 4, 1993, and letter from R. M. Rosenblum, SCE to NRC dated March 30, 1993.

The Full Flow Condensate Polishing Demineralizer (FFCPD) Regenerative Waste HUT DCP was cancelled since the scope of the work identified will be accomplished without capital modifications.

DCP 6605.08, CR 63 electrical panel modification, has been moved from Schedule C to Schedule B. The modification is considered a part of the evaluation for a major NRC initiated issue not required by regulation, license condition or order. This is part of the Human Engineering upgrades determined necessary by the CRDR evaluations as part of NUREG 0700.

DCP 6754, installation of the Diesel Generator Turbo Prelube, has been moved from Schedule C to Schedule B. This upgrade will improve the EDG reliability factors per NRC IE notice 85-32.

Approximately 50% of resources for the Unit 2 and the Unit 3 Cycle 7 refueling outages will be allocated to regulatory projects.

The Westinghouse Analytical Ranking Program (WARP) was not used to rank the relative safety significance of each Schedule A and B modification because their implementation schedules have been established in separate correspondence.

If you have any questions on the Eighth Edition of the San Onofre Units 2 and 3 IIS, please let me know.

Very truly yours,

Walter C. Marsh
Manager of
Nuclear Regulatory Affairs

Enclosures

cc: B. H. Faulkenberry, Regional Administrator, NRC Region V
C. W. Caldwell, NRC Senior Resident Inspector, San Onofre Units 1, 2&3
M. B. Fields, NRC Project Manager, San Onofre Units 2 and 3

ENCLOSURE 1

Enclosure 1

SONGS 2 CYCLE 7 INTEGRATED IMPLEMENTATION SCHEDULE

UNIT 2 CYCLE 7 SCHEDULE A - NRC RULE OR ORDER

MODIFICATION	REFERENCE LETTER/COMMENTS
Station Blackout Modification	10CFR50.63 (DCP 6711)

UNIT 2 CYCLE 7 SCHEDULE B - REGULATORY COMMITMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Control Room (CR) annunciator rearrangement modification	NUREG 0700 (DCP 6609.00)
CR 63 Annunciator modifications	NUREG 0700 (DCP 6609.02)
CR 63 electrical panel modifications	NUREG 0700 (DCP 6605.08)
Control Room human factors modifications	SCE letter to NRC dated June 18, 1990 (DCP 6605.06)
CR 61 Panel Modifications days[1]	(DCP 6605.09) Cycle 7 plus 120
Component Cooling Water (CCW) seismic make up addition	From SSFI and SCE letter to NRC dated July 30, 1990 (DCP 6742.07)
Modify plant protection system (PPS) test switches	LER 2-90-014, 3-89-007 (DCP 6827)
Modify overspeed protection on steam driven auxiliary feedwater pumps	LER 2-90-012, 2-92-007 (DCP 6869)
Spill prevention control and countermeasures modification	H. Newton (SCE) letter to A. Coe (Cal Regional Water Quality Board) dated November 14, 1991; The current issued SPCC plan or agreed upon equivalent engineering practices will be completed by the end of the year (DCP 6878)

[1]CR 61 panel modifications will continue during both Unit 2 and 3 Cycle 7 outages and will be completed during the first 120 days of Unit 3 Cycle 7 operation.

Delete cycling MSIS relay; Provide partial ESF actuation annunciator	LER 3-90-002-01 (DCP 6826)
Steam driven auxiliary feedwater pump steam supply check valve modifications	LER 2-91-014 (DCP 6869)
Load Center Transformer Replacements (SR portion will be completed in C7, with non-safety related work continued in Cycles 8 and 9)	LER 2-92-008 (DCP 6974)
Add T-hot and T-cold indicators to Remote Shutdown Panel	NUREG 0800 (DCP 6939)
Inverter Room Temperature Alarm	PRA to NRC (DCP 6831.01), completed
Equipment Hatch Backup Power	NUMARC 91-06
Install DG Turbo Pre Lube	NRC IE Notice 85-32 (DCP 6754)

UNIT 2 CYCLE 7 SCHEDULE C - PLANT BETTERMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Ladders and platforms	On going program (DCP 6735.01)
Cross connect shutdown cooling and containment spray systems	(DCP 6863.00)
Install removable digital polar crane controls	(DCP 6855)
Low pressure safety injection pump seal upgrades	(DCP 6858)
Add external test points to plant protection system (PPS) panel	(DCP 6828)
Snubber reduction	On going program (DCP 6683.03)
Replace the low pressure turbine bellows with stainless steel bellows	(DCP 6868)
Turbine building sump radiation monitor low flow alarms	Non outage related modification (DCP 6191)
Safety Injection system pipe vent relocation	(DCP 6697)

Post accident sampling system (PASS) skid enhancements	(DCP 6751)
Pressurizer Vent	(DCP 6863.01)
Install cooler in respiratory/breathing air system	(DCP 6842)
Remove MICDS inside/outside Containment	(DCP 6808.01)
Modify PMS and COLSS back up computer system	(DCP 6716)
Install oxygen monitor in the FFCPD Lab	(MMP 6891)
Replace Flow Probe in the Plant Vent Stack radiation monitor	(MMP 6835)
Modify 90 minute emergency Control Room lighting battery backup	(DCP 6888)

SONGS 2 CYCLE 8 INTEGRATED IMPLEMENTATION SCHEDULE

UNIT 2 CYCLE 8 SCHEDULE A - NRC RULE OR ORDER

THERE ARE NO SCHEDULE A ITEMS IDENTIFIED AT THIS TIME.

UNIT 2 CYCLE 8 SCHEDULE B - REGULATORY COMMITMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Provide annunciator alarms for open containment emergency sump isolation valves and closed ECCS and CS pump mini flow valves	LER 3-90-[illegible] and SCE to NRC letter dated February 2, 1991

UNIT 2 CYCLE 8 SCHEDULE C - PLANT BETTERMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Install removable refueling machine controls	(DCP 6864)
Add permanent breathing air and communication stations to steam generator platform	(DCP 6809)
Replace refueling cavity seals	(DCP 6857)
Redesign blowdown drain system	(DCP 6752)
Replace NMC radiation monitors	(DCP 6876, 6926)
Replace circ water ΔT data logger	(DCP 6963)
Replace loose parts and vibration monitoring system	(DCP 6851)
Replace sodium and chloride analyzers	(DCP 6884)
Replace conductivity instrumentation	(DCP 6885)
Replace pH instrumentation	(DCP 6886)
Turbine Governor Valve Modifications	(DCP 6914)

ENCLOSURE 2

Enclosure 2

SONGS 3 CYCLE 7 INTEGRATED IMPLEMENTATION SCHEDULE

UNIT 3 CYCLE 7 SCHEDULE A - NRC RULE OR ORDER

MODIFICATION	REFERENCE LETTER/COMMENTS
Station Blackout Modification	10CFR50.63 (DCP 6711)

UNIT 3 CYCLE 7 SCHEDULE B - REGULATORY COMMITMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Control Room annunciator rearrangement modification	NUREG 0700 (DCP 6609.00)
CR 63 Annunciator Modifications	NUREG 0700 (DCP 6609.02)
CR 63 electrical Panel modifications (To be completed during Unit 2 Cycle 7 outage)	NUREG 0700 (DCP 6605.08)
Control Room human factors modifications	SCE letter to NRC dated June 18, 1990 (DCP 6605.06)
CR 61 Panel Modifications days[2]	(DCP 6605.09) Cycle 7 plus 120
Component Cooling Water (CCW) seismic make up addition	From SSFI and SCE letter to NRC dated July 30, 1990 (DCP 6742.07)
Modify plant protection system (PPS) test switches	LER 2-90-014, 3-89-007 (DCP 6827)
Modify overspeed protection on steam driven auxiliary feedwater pumps	LER 2-90-012, 2-92-007 (DCP 6869)
Spill prevention control and countermeasures modification	H. Newton (SCE) letter to A. Coe (Cal RWQB) dated November 14, 1991; The current issued SPCC plan or agreed upon equivalent engineering practices will be completed by the end of the year (DCP 6878)
Delete cycling MSIS relay; Provide partial ESF actuation annunciator	LER 3-90-002-01 (DCP 6826)
Steam driven auxiliary feedwater pump steam supply check valve modifications	LER 2-91-014 (DCP 6869)

[2]CR 61 panel modifications will continue during both Unit 2 and 3 Cycle 7 outages and will be completed during the first 120 days of Unit 3 Cycle 7 operation.

Add T-hot and T-cold indicators to Remote Shutdown Panel	NUREG 0800 (DCP 6939)
Load Center Transformer Replacements (SR portion will be completed in C7, with NSR work continued in Cycles 8 and 9)	LER 2-92-008 (DCP 6974)
Inverter Room Temperature Alarm	PRA to NRC (DCP 6831.01), completed
Equipment Hatch Backup Power	NUMARC 91-06
Install DG Turbo Pre Lube	NRC IE Notice 85-32 (DCP 6754)

UNIT 3 CYCLE 7 SCHEDULE C - PLANT BETTERMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Ladders and platforms	On-going program; Non-outage related modification (DCP 6735.01)
Cross connect shutdown cooling and containment spray systems	(DCP 6863.00)
Install removable digital polar crane controls	(DCP 6855)
Low pressure safety injection pump seal upgrades	(DCP 6858)
Add external test points to plant protection system (PPS) panel	(DCP 6828)
Snubber reduction	On-going program (DCP 6683.03)
Turbine building sump radiation monitor lowflow alarms	Non outage related modification (DCP 6191)
Replace low pressure turbine bellows with stainless steel bellows	(DCP 6868)
Pressurizer Vent Modification	(DCP 6863.01)
Replace fire and security computers	Non outage related modification (DCP 7018)
Remove MICDS inside/outside Containment	(DCP 6808.01)
Temporary Facility Modification incorporations	Non outage related modification (DCP 6748)

Modify PMS and COLSS back up computer system	(DCP 6716)
Install oxygen monitor in the FFCPD lab	(MMP 6891)
Replace Flow Probe in the Plant Vent Stack radiation monitor	(MMP 6835)

SONGS 3 CYCLE 8 INTEGRATED IMPLEMENTATION SCHEDULE

UNIT 3 CYCLE 8 SCHEDULE A - NRC RULE OR ORDER

THERE ARE NO SCHEDULE A ITEMS IDENTIFIED AT THIS TIME.

UNIT 3 CYCLE 8 SCHEDULE B - REGULATORY COMMITMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Provide annunciator alarms for open containment emergency sump isolation valves and closed ECCS and CS pump mini flow valves	LER 3-90-010 and SCE to NRC letter dated February 2, 1991 (DCP 6609)

UNIT 3 CYCLE 8 SCHEDULE C - PLANT BETTERMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Install removable refueling machine controls	(DCP 6864)
Add permanent breathing air and communication stations to steam generator platf[illegible]	(DCP 6809)
Replace refueling cavity seals	(DCP 6857)
Redesign blowdown drain system	(DCP 6752)
Replace NMC radiation monitors	(DCP 6876, 6926)
Replace circ water ΔT data logger	(DCP 6963)
Upgrade loose parts and vibration monitoring system	(DCP 6851)
Replace sodium and chloride analyzers	(DCP 6884)
Replace conductivity instrumentation	(DCP 6885)
Replace pH instrumentation	(DCP 6886)
Turbine Governor Valve Modifications	(DCP 6914)
Replace TGIS	(DCP 6933)

ENCLOSURE 3

Enclosure 3

ONGOING EVALUATIONS OF MAJOR ISSUES (SONGS 2 and 3)

GL 88-20, SUP 4	Individual Plant Examination of External Events (IPEEE), to be completed by 6/01/95.
GL 89-04	Guidance on developing acceptable Inservice Testing Programs, to be implemented by completion of Unit 3 Cycle 8 refueling.
GL 89-10	The initial Safety-Related Motor-Operated Valve Testing and Surveillance will be completed for Units 2 and 3 by the end of their respective Cycle 8 refueling outages. Periodic verifications of MOV operability will follow.
GL 91-15	In response to Generic Letter 91-15, "Operating Experience Feedback Report, Solenoid Operated Valve Problems At U.S. Reactors," SCE has completed a review of Industry's and San Onofre-specific operating experience with the use of solenoid operated valves. This review also included revisiting NRC Bulletins, Information Notices, and recommending potential corrective actions. SCE is currently assessing the implementation of review findings.