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February 23, 1994

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

Gentlemen:

Subject:

Docket Nos. 50-361 and 50-362

Ninth Edition of the Integrated Implementation Schedule (IIS)

San Onofre Nuclear Generating Station Units 2 and 3

Reference: 1.

- Letter from W. C. Marsh (SCE) to Document Control Desk (NRC), dated July 2, 1993; Eighth Edition of the Integrated Implementation Schedule (IIS).
- Letter from F. R. Nandy (SCE) to Document Control Desk (NRC), Dated June 18, 1990; Detailed Control Room Design Review Modifications, San Onofre Nuclear Generating Station Units 2 and 3.

Enclosures 1 through 5 provide the semi-annual update of the Ninth Edition of the Integrated Implementation Schedule (IIS) for the San Onofre Nuclear Generating Station (SONGS), Units 2 and 3. Enclosure 1 lists the Schedule A, B, and C projects for SONGS 2 and 3, completed during the recent Cycle 7 outages. Enclosure 2 lists the Cycle 7 non-outage work. Enclosures 3 and 4 list by outage, the Schedule A, B, and C projects for SONGS 2 and 3, respectively. Enclosure 5 lists the ongoing evaluations for major issues for SONGS 2 and 3.

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

ACTION	UNIT CYCLE SCHEDULE	MODIFICATION
Added	2/3 8 C	In-containment PAMI Improvements (DCP 2005)
Added	2/3 8 C	Snubber Reduction - ongoing program (DCP 6683.04)
Added	2/3 8 C	Ladders and Platforms - Non-outage, on-going program (DCP 6735.03)
Added	2/3 8 C	RCS Vacuum Fill (DCP 6941)
Added	2/3 8 C	AVR Replacement (DCP 6946)

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Added	2/3	8	C	Ex-Core Neutron Detectors (DCP 6984)
Added	2/3	8	С	Reorient/Replace CCW Containment Isolation Valve (DCP 6986.00)
Added	2/3	8	В	Addition of Valves and Drains for IST in accordance with Generic Letter 89-04 (DCP 6988)
Added	2/3	8	C	RCP Design Changes (DCP 6990.00)
Added	2/3	8	В	Intake Structure Security Barriers (SCE to NRC letters February 12, 1993 and July 15, 1993) (DCP 6999.00)
Added	2/3	8	C	Containment Purge and Plant Vent Stack Radiation Monitor (DCP 6876)
Deleted	2/3	8	С	Replace sodium and chloride analyzers (DCP 6884)
Deleted	2/3	8	C	Replace pH Instrumentation (DCP 6886)
Scope Change	2/3	8	С	Replace TPSS Secondary Chemistry Instrumentation (DCP 6885)
Added	2/3	8	С	Replace HP1000 Computer and Meteorological Environment Enclosure (DCP 7032)
Added	2	8	С	Replace HFMUD Chemistry Analyzers (DCP 7034)
Added	2/3	8	В	Target Rock solenoid valve upgrade in accordance with Generic Letter 91-15 (DCP 6910)
Added	3	. 8	C	Seismic Joint Repair (DCP 6977)
Added	2	8	С	Talega #2 Transmission Line (DCP 2062)
Deleted	2/3	8	C	Add Permanent Breathing Air and Communication Stations to Steam Genera' Platform (DCP 6809)
Deleted	2/3	8	C	Replace Refueling Cavity Seals (DCP 6857)
Deleted	2/3	8	С	Redesign Blowdown Drain System (DCP 6752)
Moved from U3	2	8	С	TGIS Instrument Replacement (DCP 6933)

Added	2	8	C	Degraded Grid Voltage (DCP 2060)
Sched Change	2/3	8	С	Install Removable Digital Polar Crane Controls (DCP 6855)
Added	2/3	8	C	CRA 44 Card Replacement (DCP 6908)
Added	2/3	8	C	T-121 Nitrogen Blanket System (DCP 6877)

The Detailed Control Room Design Review Modifications noted in Reference 2 (DCP 6609) were completed during the SONGS 2 and 3 Cycle 7 refueling outages. The outage related portions of DCP 6605.09, CR 61 Panel Modifications, have been completed and the non-outage portions will be completed by 4/29/94 (i.e., during the first 120 days of Unit 3 Cycle 7 operation, as noted in Reference 1). This work will complete the Human Engineering upgrades determined necessary by the Control Room Design Review evaluations as part of NUREG 0700.

The safety related 480 VAC Load Center Transformers for Units 2 and 3 were replaced under DCP 6974. The non-safety related transformers associated with this modification will be replaced during Cycle 8 and on a non-outage, asneeded basis. This work has been moved from Schedule B to Schedule C.

The preliminary Cycle 9 scope of work is being developed. It should be included in the Tenth Edition of the IIS.

DCP 6863.01, Pressurizer Vent Modification, was completed for Unit 2 during the Cycle 7 outage. However, this Schedule C work was deleted from the Unit 3 work scope for Cycle 7.

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 Ninth Edition of the San Onofre Units 2 and 3 IIS, please let me know.

Hallo C. March

Enclosures

cc: K. E. Perkins, Jr., Acting Regional Administrator, NRC Region V J. A. Sloan, NRC Senior Resident Inspector, San Onofre Units 2 and 3 M. B. Fields, NRC Project Manager, San Onofre Units 2 and 3

ENCLOSURE 1

WORK COMPLETED DURING THE SONGS 2 AND 3
CYCLE 7 REFUELING OUTAGES

WORK COMPLETED DURING THE SONGS 2 CYCLE 7 REFUELING OUTAGE

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

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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)

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 (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)

Load Center Transformer Replacements

LER 2-92-008 (DCP 6974) (SR portions)

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)

Equipment Hatch Backup Power

NUMARC 91-06

Install Diesel Generator Turbocharger Prelube NRC IE Notice 85-32 (DCP 6754)

UNIT 2 CYCLE 7 SCHEDULE C - PLANT BETTERMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Cross Connect Shutdown Cooling and Containment Spray Systems	(DCP 6863.00)
Low Pressure Safety Injection Pump Seal Upgrades	(DCP 6858)
Add External Test Points to Plant Protection System (PPS) Panel	(DCP 6828)
Snubber Reduction	(DCP 6683.03)
Replace the Low Pressure Turbine Bellows with Stainless Steel Bellows	(DCP 6868)
Pressurizer Vent	(DCP 6863.01)
Install Cooler in Respiratory/Breathing Air System	(DCP 6842)
Remove MICDS Inside/Outside Containment	(DCP 6808.01)
Replace Flow Probe in the Plant Vent Stack Radiation Monitor	(MMP 6835)

WORK COMPLETED DURING THE SONGS 3 CYCLE 7 REFUELING OUTAGE

UNIT 3 CYCLE 7 SCHEDULE A - NRC RULE OR ORDER

MODIFICATION

REFERENCE LETTER/COMMENTS

Station Blackout Modification 10CFR50.63 (DCP 6711)

HNIT 3 CYCLE 7 SCHEDINE R - DECHI ATORY COMMITMENT

- REGULATORY COMMITMENT
REFERENCE LETTER/COMMENTS
NUREG 0700 (DCP 6609.00)
NUREG 0700 (DCP 6609.02)
NUREG 0700 (DCP 6605.08)
SCE letter to NRC dated June 18, 1990 (DCP 6605.06)
From SSFI and SCE letter to NRC dated July 30, 1990 (DCP 6742.07)
LER 2-90-014, 3-89-007 (DCP 6827)
LER 2-90-012, 2-92-007 (DCP 6869)
H. Newton (SCE) letter to A. Coe (Cal RWQB) dated November 14, 1991 (DCP 6878)
LER 3-90-002-01 (DCP 6826)
LER 2-91-014 (DCP 6869)
NUREG 0800 (DCP 6939)
LER 2-92-008 (DCP 6974) (SR portions)
PRA to NRC (DCP 6831.01)
NUMARC 91-06
NRC IE Notice 85-32 (DCP 6754)

UNIT 3 CYCLE 7 SCHEDULE C - PLANT BETTERMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Cross Connect Shutdown Cooling and Containment Spray Systems	(DCP 6863.00)
Low Pressure Safety Injection Pump Seal Upgrades	(DCP 6858)
Add External Test Points to Plant Protection System (PPS) Panel	(DCP 6828)
Snubber Reduction	(DCP 6683.03)
Replace Low Pressure Turbine Bellows with Stainless Steel Bellows	(DCP 6868)
Remove MICDS Inside/Outside Containment	(DCP 6808.01)
Replace Flow Probe in the Plant Vent Stack Radiation Monitor	(MMP 6835)

ENCLOSURE 2

SONGS 2 AND 3 CYCLE 7 NON-OUTAGE WORK

SONGS 2 CYCLE 7 INTEGRATED IMPLEMENTATION SCHEDULE NON-OUTAGE WORK

UNIT 2 CYCLE 7 SCHEDULE B - REGULATORY COMMITMENT

MODIFICATION

REFERENCE LETTER/COMMENTS

CR 61 Panel Modifications

(DCP 6605.09)

UNIT 2 CYCLE 7 SCHEDULE C - PLANT BETTERMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
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)
Modify PMS and COLSS Back-up Computer System	(DCP 6716)
Install Oxygen Monitor in the FFCPD Lab	(MMP 6891)
Modify 90-minute Emergency Control Room Lighting Battery Backup	(DCP 6888)
Ladders and Platforms	(DCP 6735.01)

SONGS 3 CYCLE 7 INTEGRATED IMPLEMENTATION SCHEDULE NON-OUTAGE WORK

UNIT 3 CYCLE 7 SCHEDULE B - REGULATORY COMMITMENT

MODIFICATION

REFERENCE LETTER/COMMENTS

CR 61 Panel Modifications

(DCP 6605.09)

UNIT 3 CYCLE 7 SCHEDULE C - PLANT BETTERMENT

MODIFICATION	REFERENCE LETTER/COMMENTS
Turbine Building Sump Radiation Monitor Low Flow Alarms	(DCP 6191)
Replace Fire and Security Computers	(DCP 7018)
Temporary Facility Modification Incorporations	(DCP 6748)
Modify PMS and COLSS Back-up Computer System	(DCP 6716)
Install Oxygen Monitor in the FFCPD Lab	(MMP 6891)
Ladders and Platforms	(DCP 6735.01)
Modify 90-minute Emergency Control Room Lighting Battery Backup	(DCP 6888)

ENCLOSURE 3
SONGS 2 CYCLE 8 SCHEDULES

SONGS 2 CYCLE 8 INTEGRATED IMPLEMENTATION SCHEDULE

UNIT 2 CYCLE 8 SCHEDULE A - NRC RULE OR ORDER

MODIFICATION

REFERENCE LETTER/COMMENTS

THERE ARE NO SCHEDULE A ITEMS IDENTIFIED AT THIS TIME.

UNIT 2 CYCLE 8 SCHEDULE B - REGULATORY COMMITMENT

MODII	

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 6989)

Addition of Valves and Drains for IST

Generic Letter 89-04 (DCP 6988)

Upgrade Target Rock Solenoid Valves

Generic Letter 91-15 (DCP 6910.00)

Intake Structure Security Barriers

SCE to NRC letters February 12, 1993 and July 15, 1993 (DCP 6999.00)

UNIT 2 CYCLE 8 SCHEDULE C - PLANT BETTERMENT

MODIFICATION

REFERENCE LETTER/COMMENTS

Install Removable Refueling Machine Controls

(DCP 6864)

Replace NMC Radiation Monitors

(DCP 6926)

Reorient/Replace CCW Containment Isolation Valves

(DCP 6986.00)

Containment Purge and Plant Vent Stack (DCP 6876)

Radiation Monitor

UNIT 2 CYCLE 8 SCHEDULE C - PLANT BETTERMENT (continued)

MODIFICATION	REFERENCE LETTER/COMMENTS
Replace Circ Water △T Data Logger	(DCP 6963)
Replace Loose Parts and Vibration Monitoring System	(DCP 6851)
Turbine Governor Valve Modifications	(DCP 6914)
Snubber Reductions	On-going program (DCP 6683.04)
Ladders and Platforms	On-going program (DCP 6735.03)
RCS Vacuum Fill	(DCP 6941)
AVR Replacement	(DCP 6946)
Ex-core Neutron Detectors	(DCP 6984)
RCP Design Changes	(DCP 6990)
Replace TPSS Secondary Chemistry Instrumentation	(DCP 6885)
Replace HP1000 Computer and Meteorological Equipment Enclosure	(DCP 7032)
Replace HFMUD Chemistry Analyzers	(DCP 7034)
In-containment PAMI Improvements	(DCP 2005)
TGIS Instrument Replacement	(DCP 6933)
Degraded Grid Voltage	(DCP 2060)
Install Removable Digital Polar Crane Controls	(DCP 6855)
Talega #2 Transmission Line	(DCP 2062)
CRA 44 Card Replacement	(DCP 6908)
T-121 Nitrogen Blanket Sytem	(DCP 6877)
Load Center Transformer Replacement	(DCP 6974)

ENCLOSURE 4

SONGS 3 CYCLE 8 SCHEDULES

SONGS 3 CYCLE 8 INTEGRATED IMPLEMENTATION SCHEDULE

UNIT 3 CYCLE 8 SCHEDULE A - NRC RULE OR ORDER

MODIFICATION

REFERENCE LETTER/COMMENTS

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 6989)

Addition of Valves and Drains for IST

Generic Letter 89-04 (DCP 6988)

Upgrade Target Rock Solenoid Valves

Generic Letter 91-15 (DCP 6910.00)

Intake Structure Security Barriers

SCE to NRC letters February 12, 1993 and July 15, 1993 (DCP 6999.00)

UNIT 3 CYCLE 8 SCHEDULE C - PLANT BETTERMENT

MODIFICATION

REFERENCE LETTER/COMMENTS

Install Removable Refueling Machine Controls

(DCP 6864)

Controls

(DCP 6926)

Replace NMC Radiation Monitors

(DCP 6963)

Replace Circ Water ΔT Data Logger

(DCP 6986.00)

Reorient/Replace CCW Containment

Isolation Valves

(DCP 6876)

Containment Purge and Plant Vent Stack

Radiation Monitor

UNIT 3 CYCLE 8 SCHEDULE C - PLANT BETTERMENT (continued)

MODIFICATION REFERENCE LETTER/COMMENTS Replace Loose Parts and Vibration (DCP 6851) Monitoring System Turbine Governor Valve Modifications (DCP 6914) Snubber Reductions On-going program (DCP 6683.04) Ladders and Platforms On-going program (DCP 6735.03) RCS Vacuum Fill (DCP 6941) (DCP 6946) AVR Replacement Ex-core Neutron detectors (DCP 6984) (DCP 6990) RCP Design Changes Replace TPSS Secondary Chemistry (DCP 6885) Instrumentation Replace HP1000 Computer and (DCP 7032) Meteorological Equipment Enclosure Install Removable Digital Polar Crane (DCP 6855) Controls CRA 44 Card Replacement (DCP 6908) Seismic Joint Repair (DCP 6977) In-Containment PAMI Improvements (DCP 2005) T-121 Nitrogen Blanket System (DCP 6877)

Load Center Transformer Replacement

(DCP 6974)

ENCLOSURE 5
ONGOING EVALUATIONS OF MAJOR ISSUES (SONGS 2 AND 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 89-10

The initial safety related Motor Operated Valve (MOV)

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.