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SUBJECT: Forwards third edition of integrated implementation schedule
for facilities.

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November 16, 1990

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

Gentlemen:

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

Reference: Letter from F. R. Nandy (SCE) to Document Control Desk (NRC),
dated May 14, 1990; Subject: Second Edition of the Integrated
Implementation Schedule (IIS)
San Onofre Nuclear Generating Station
Units 2 and 3

This letter provides, as Enclosures 1 through 3, the third edition of the Integrated Implementation Schedule (IIS) for the San Onofre Nuclear Generating Station, Units 2 and 3. The IIS is required by License Conditions 2.C(26) for Unit 2, and 2.C(27) for Unit 3.

As required by the License Condition, projects of regulatory origin must be ranked to determine their relative potential safety contribution utilizing the Westinghouse Analytical Ranking Process (WARP) computer code. The modifications must then be separated into two lists designated Schedule A and Schedule B. Schedule A items have implementation dates required by NRC regulations, orders or license conditions. Schedule B items are other items which have implementation dates committed to by Southern California Edison (SCE) which would result in either:

- (a) Plant modifications;
- (b) Procedure revisions;
- (c) Changes in facility staffing requirements;
- (d) Items perceived by SCE as prospective NRC requirements;
- (e) Major tasks resulting from mandates of agencies other than the NRC; or
- (f) Evaluation of major initiated issues not required by regulation, license conditions, or orders.

In addition, a Schedule C is included which lists SCE initiated plant betterment projects.

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Enclosure 1 lists, by outage, the SONGS 2 Schedule A, B, and C projects. Enclosure 2 contains a similar listing for Unit 3. As required by the license conditions, Enclosure 3 contains a listing of ongoing evaluations for major issues which have been initiated for SONGS 2 and 3.

A comparison to the second edition of the IIS (referenced above) reveals that the following changes have occurred to the Cycle 6 schedules:

Action	Unit	Cycle	Schedule	Modification
Added	2/3	6	B	Emergency Response Data System in voluntary response to GL 89-15
Added	2/3	6	B	Removal of Shutdown Cooling Autoclosure Interlock (ACI)
Added	3	6	B	Steam Generator Overfill Protection System (SGOPS)
Schedule Change	2/3	*	B	Spent Fuel Pool (SFP) Reracking (The SFP reracking modification has been correctly reclassified as a Schedule B item to reflect the NRC requirement for fuel storage.)
Added	2/3	6	C	Circulating Water Pump Cooling Modification
Added	2/3	6	C	Auxiliary Feedwater Check Valve Relocation
Deleted	2/3	6	C	Centrifugal Charging Pump Addition
Deleted	3	6	C	Radwaste Control Room HVAC

* Unit 3 SFP reracking will be installed during Cycle 5 as a non-outage related item and Unit 2 SFP reracking will be installed during Cycle 6 as a non-outage related item.

All the modifications which were included in or added to Schedule B for Cycle 6 refueling outage installation will be completed in the Cycle 6 refueling outage. Cycle 7 Schedule A and B items are being installed on the schedules committed to in SCE to NRC letters dated June 18, 1990, July 30, 1990, and October 22, 1990. The WARP program which ranks the safety significance of each modification, was not required because WARP rankings are only used to determine the priority for scheduling work that could not be completed in the next refueling outage.

Approximately 58% of resources for the Unit 2, Cycle 6 refueling outage will be allocated to regulatory projects. Approximately 65% of resources for the Unit 3, Cycle 6 refueling outage will be allocated to regulatory projects.

If you have any questions on the third edition of the San Onofre 2 and 3 IIS, or if you require additional information, please let me know.

Very truly yours,



Enclosure

cc: J. B. Martin, Regional Administrator, NRC Region V
C. Caldwell, NRC Senior Resident Inspector, San Onofre Units 1, 2 and 3

ENCLOSURE 1

SONGS 2 IIS

Cycle 6

Schedule A*

Anticipated Transients Without SCRAM (ATWS) Diverse
Emergency Feedwater Actuation System (10 CFR 50.62)
Station Blackout Modification (10 CFR 50.63)
(Contingent on NRC issuance of SER)

Schedule B**

Charging Room Components Venting to Heating
Ventilation and Air Conditioning (HVAC) (NRC
Inspection Reports 50-361/86-25, 50-362/86-26)+
Atmospheric Dump Valves (ADV) Upgrades to Allow Easier
Valve Operation (Letter to NRC, September 12, 1988)
Component Cooling Water (CCW) Modifications From
Results of SSFI to Mitigate Voiding (Letter to NRC, July 30, 1990)
Second Refueling Water Level Indicator (GL 88-17) (Ongoing Program and
Letter to NRC, October 31, 1990)
Removal of the Shutdown Cooling Autoclosure Interlock (ACI) (GL 88-17
and Letter to NRC, October 31, 1990)
HVAC Vital Barrier Stops (IE Notice 86-83)+
Diesel Generator and Class 1E Battery Room Hi/Lo Temperature
Alarm Modifications From Results of SSFI (Letter to NRC,
April 24, 1990)
Control Room Human Factors Modifications (LER 89-014)
Emergency Response Data System (GL 89-15)
Spent Fuel Pool Reracking+

Schedule C***

Snubber Reduction (Ongoing Program)
Auxiliary Feedwater Check Valve Relocation
Turbine Building Sump Monitor Low Flow Alarms
Containment Purge System Blind Flange Installation+
Secondary Chemistry Alarms
Auxiliary Feedwater and Safety Injection Pipe Vent Relocation+
Circulating Water Pump Cooling Water Modification

- * NRC Rule or Order
- ** Regulatory Commitment (other than Schedule A)
- *** Plant Betterment
- + This is a Non-Outage Related Modification

SONGS 2 IIS (Cont'd)

Cycle 7

SCHEDULE A*

There are no Schedule A items at this time

SCHEDULE B**

Control Room Annunciator Rearrangement Modifications
(NUREG 0700) #
Component Cooling Water (CCW) Seismic Makeup From Results
of SSFI to Mitigate Voiding (Letter to NRC, July 30, 1990)
Steam Generator Overfill Protection System (SGOPS) (GL 89-19 and
Letter to NRC, October 22, 1990)

SCHEDULE C***

Ladders and Platforms (Ongoing program)+
Cross Connect Shutdown Cooling and Containment Spray
Install Removable Digital Polar Crane Controls
Install Removable Refueling Machine Controls
Replace Refueling Cavity Seals+
LPSI Pump Upgrades
Direct Dilution of Primary Plant Make-up Water
Add External Test Points to Plant Protection System (PPS) Panel
Modify PPS Test Switches
Replace CFMS Computer
Snubber Reduction (Ongoing program)
Add Breathing Air and Communication to Steam Generator Platforms
Upgrade Blowdown Processing System and Drains+
Upgrade Fire Protection Computer
Upgrade Security Computer

- * NRC Rule or Order
- ** Regulatory Commitment (other than Schedule A)
- *** Plant Betterment
- + This is a Non-Outage Related Modification
- # To be identified from evaluations based on results of the Detailed Control Room Design Review per NUREG-0700 (evaluation listed in Enclosure 3).

ENCLOSURE 2

SONGS 3 IIS

Cycle 5

Schedule A*

There are no Schedule A items at this time

Schedule B**

Spent Fuel Pool Reracking+

Schedule C***

Ladders and Platforms for Personnel Safety (Ongoing Program)+

- * NRC Rule or Order
- ** Regulatory Commitment (other than Schedule A)
- *** Plant Betterment
- + This is a Non-Outage Related Modification

SONGS 3 IIS (Cont'd)

Cycle 6

Schedule A*

ATWS Diverse Emergency Feedwater Actuation System (10 CFR 50.62)#
Station Blackout (10 CFR 50.63) (Contingent on NRC issuance of SER)

Schedule B**

Charging Room Components Venting to HVAC (NRC Inspection
Reports 50-361/86-25, 50-362/86-26)+
ADV Upgrades to Allow Easier Valve Operation (Letter to NRC,
September 12, 1988)
CCW Modifications From Results of SSFI to Mitigate Voiding (Letter
to NRC, July 30, 1990)
Second Refueling Water Level Indicator (GL 88-17) (Ongoing Program
and Letter to NRC, October 31, 1990)
Removal of the Shutdown Cooling Autoclosure Interlock (ACI)
(GL 88-17 and Letter to NRC, October 31, 1990)
HVAC Vital Barrier Stops (IE Notice 86-83)+
Diesel Generator and Class 1E Battery Room Hi/Lo Alarm Modifications
From Results of SSFI (Letter to NRC, April 24, 1990)
Control Room Human Factors Modifications (LER 89-014)
Emergency Response Data System (GL 89-15)
Steam Generator Overfill Protection System (SGOPS) (GL 89-19 and
Letter to NRC, October 22, 1990)

Schedule C***

Snubber Reduction (Ongoing Program)
Turbine Building Sump Monitor Low Flow Alarms
Spent Fuel Pool Purification Cross Tie+
Sewage Plant Upgrade+
Containment Purge System Blind Flange Installation
Auxiliary Feedwater Check Valve Relocation
Moisture Separator Reheater Modification
Condensate Flow Distribution Modification
Safety Injection Pipe Vent Relocation
Circulating Water Pump Cooling Modification+

- * NRC Rule or Order
- ** Regulatory Commitment (other than Schedule A)
- *** Plant Betterment
- + This is a Non-Outage Related Modification
- # To be installed at Unit 3 immediately after the return to service of Unit 2 from the Cycle 6 refueling outage

SONGS 3 IIS (Cont'd)

Cycle 7

Schedule A*

No Schedule A items at this time

Schedule B**

Control Room Annunciator Rearrangement Modifications
(NUREG 0700) #
Component Cooling Water (CCW) Seismic Makeup From Results of
SSFI to Mitigate Voiding (Letter to NRC, July 30, 1990)

Schedule C***

Ladders and Platforms (Ongoing program)+
Cross Connect Shutdown Cooling and Containment Spray
Install Removable Digital Polar Crane Controls
Install Removable Refueling Machine Controls
Replace Refueling Cavity Seals+
LPSI Pump Upgrades
Direct Dilution of Primary Plant Make-up Water
Add External Test Points to Plant Protection System (PPS) Panel
Modify PPS Test Switches
Replace CFMS Computer
Snubber Reduction (Ongoing program)
Add Breathing Air and Communication to Steam Generator Platforms
Upgrade Blowdown Processing System and Drains+
Upgrade Fire Protection Computer
Upgrade Security Computer

- * NRC Rule or Order
- ** Regulatory Commitment (other than Schedule A)
- *** Plant Betterment
- + This is a Non-Outage Related Modification
- # To be identified from evaluations based on results of the Detailed Control Room Design Review per NUREG-0700 (evaluation listed in Enclosure 3).

ENCLOSURE 3

Ongoing Evaluations of Major Issues (SONGS 2 and 3)

- GL 88-20 Individual Plant Examination for Severe Accident Vulnerabilities, to be completed by 8/29/92.
- GL 89-10 Safety-Related Motor-Operated Valve Testing and Surveillance, to be completed by 6/28/94 or three refueling outages after 12/28/89.
- GL 89-13 Service Water System Problems Affecting Safety-Related Equipment, to be completed for Unit 2 and Unit 3 by the end of Cycle 6 refueling outages, respectively.

Annunciator Evaluations Based on Results of Detailed Control Room Design Review (NUREG-0700), modifications to be completed by the end of the Cycle 7 refueling outage for each unit.