Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION
P.O. BOX 128
SAN CLEMENTE, CALIFORNIA 92672

SCE

H. B. RAY
STATION MANAGER

TELEPHONE
(714) 492-7700

August 12, 1983

NRMD

Director
Office of Management Information and
Program Analysis
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

Subject: Docket Nos. 50-361/50-362
Monthly Operating Reports for July 1983
San Onofre Nuclear Generating Station, Units 2 and 3

Enclosed are the Monthly Operating Reports as required by Section 6.9.1.10 of Appendix A, Technical Specifications to Facility Operating Licenses NPF-10 and NPF-15 for San Onofre Nuclear Generating Station, Units 2 and 3, respectively.

Please contact us if we can be of further assistance.

Sincerely,

H B Ray

Enclosures

cc: J. B. Martin (Regional Administrator, USNRC Region V)
W. E. Chaffee (USNRC Resident Inspector, Units 2 and 3)
J. P. Stewart (USNRC Resident Inspector, Units 2 and 3)

DESIGNATED ORIGINAL
Certified By M R Beebe 9/7/83

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NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-361
UNIT NAME SONGS - 2
DATE August 12, 1983
COMPLETED BY L. Mayweather
TELEPHONE (714) 492-7700
Ext. 56223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: 1 July 1983 through 31 July 1983
3. Licensed Thermal Power (MWt): 3,390
4. Nameplate Rating (Gross MWe): 1,127
5. Design Electrical Rating (Net MWe): 1,087
6. Maximum Dependable Capacity (Gross MWe): 1,127
7. Maximum Dependable Capacity (Net MWe): 1,087
8. If Changes Occur In Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
   NA
9. Power Level To Which Restricted, If Any (Net MWe): NA
10. Reasons For Restrictions, If Any: NA

		This Month	Yr.-to-Date	Cumulative
11.	Hours In Reporting Period	744	5,087	7,547.20
12.	Number Of Hours Reactor Was Critical	337.07	2,119.52	3,153.02
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	291.52	1,657.18	2,499.28
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	782,017	3,420,316	4,348,656
17.	Gross Electrical Energy Generated (MWH)	252,900	1,012,200	1,207,212
18.	Net Electrical Energy Generated (MWH)	229,200	884,800	1,010,820
19.	Unit Service Factor	NA	NA	NA
20.	Unit Availability Factor	NA	NA	NA
21.	Unit Capacity Factor (Using MDC Net)	0	0	0
22.	Unit Capacity Factor (Using DER Net)	0	0	0
23.	Unit Forced Outage Rate	0	0	0

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
    None
25. If Shutdown At End Of Report Period, Estimated Date of Startup: NA
26. Units In Test Status (Prior To Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	07/17/82	07/21/82
INITIAL ELECTRICITY	9/82	09/20/82
COMMERCIAL OPERATION	Under Review	

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-361

UNIT SONGS - 2

DATE August 12, 1983

COMPLETED BY L. Mayweather

TELEPHONE (714) 492-7700 Ext. 56223

MONTH: July 1983

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	1073.96
2	0	18	1074.58
3	0	19	1069.58
4	0	20	1064.17
5	0	21	1035.42
6	0	22	22.54
7	0	23	0
8	0	24	317.13
9	0	25	0
10	0	26	950.81
11	0	27	438.23
12	0	28	0
13	0	29	32.75
14	231.83	30	526.04
15	803.75	31	69.90
16	1083.63		

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JULY, 1983

DOCKET NO. 50-361
UNIT NAME SONGS - 2
DATE August 12, 1983
COMPLETED BY L. Mayweather
TELEPHONE (714) 492-7700
Ext. 56223

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	LER No.	System Code[4]	Component Code[5]	Cause & Corrective Action to Prevent Recurrence
16	830616	F	316.90	G	3	NA	HC	INSTRU	Unit tripped on low vacuum. Outage was extended to replace Reactor Coolant Pump seals.
17	830722	F	43.80	A	3	NA	IA	INSTRU	Unit tripped on low DNBR due to a group of part length control rods slipping. A faulty card in the plant computer which controls relays relating to the part length control rods was replaced.
18	830724	S	19.82	B	2	NA	NA	NA	Unit manually tripped as part of 100% generator trip test.
19	830725	F	13.13	G	3	NA	NA	NA	Unit tripped on high steam generator water level due to operator error in manual control of main feedwater.
20	830727	S	52.00	B	3	NA	NA	NA	Stopped all Reactor Coolant Pumps and unit tripped accordingly as part of natural circulation tests.
21	830731	S	6.83	B	2	NA	NA	NA	Unit manually tripped as part of "Loss of Offsite Power Trip Test."

1
F-Forced
S-Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Continuation from Previous Month
5-Reduction of 20% or Greater in the Past 24 Hours
6-Other (Explain)

4
Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

5
Exhibit H-Same Source

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-361

UNIT SONGS - 2

DATE August 12, 1983

COMPLETED BY L. Mayweather

TELEPHONE (714) 492-7700 Ext. 56223

July 1	0001	Unit is in Mode 5, 139°F. The RCS is drained to mid-loop with outage to replace Reactor Coolant Pump seals in progress.
July 10	0347	Entered Mode 4.
July 12	0223	Entered Mode 3.
July 13	1335	Entered Mode 2.
July 13	1441	Reactor critical.
July 13	2258	Entered Mode 1.
July 14	0454	Unit synchronized.
July 14	1900	Turbine load at 550 MWe gross.
July 15	1855	Achieved 100% reactor power and began NSSS 200 hour warranty run.
July 20	2253	Commenced reduction of reactor power to bump the circulating water pumps to remove condenser water box debris and improve condenser differential pressure.
July 21	0030	Reactor power at 80%.
July 21	0313	Completed bumping of circulating water pumps.
July 21	0506	Raised reactor power to 95%.
July 22	0109	Unit tripped on low DNBR due to part length group of control rods slipping.
July 23	1215	Entered Mode 2.
July 23	1234	Reactor critical.
July 23	1829	Entered Mode 1.
July 23	2057	Unit synchronized.
July 24	0400	Reactor power at 95%.
July 24	1010	Unit manually tripped as part of 100% generator trip test.
July 24	2012	Entered Mode 2.
July 25	0100	Reactor critical.
July 25	0415	Entered Mode 1.
July 25	0559	Unit synchronized.
July 25	0920	Unit tripped on high steam generator water level due to operator error in manual control of main feedwater.
July 25	1330	Entered Mode 2.
July 25	1400	Reactor critical.
July 25	1734	Entered Mode 1.

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July 25	2228	Unit synchronized.
July 26	0330	Raised reactor power to 95%, turbine load to 1130 MWe gross.
July 27	0655	Began load reduction due to an overheating condition of the generator terminal housing enclosure.
July 27	0715	Reactor power at 66%.
July 27	0910	Raised reactor power to 80%.
July 27	1020	Stopped all Reactor Coolant Pumps and reactor tripped accordingly as part of natural circulation tests.
July 28	0126	Entered Mode 4.
July 28	0640	Successfully completed natural circulation tests.
July 28	1415	Entered Mode 3.
July 29	0425	Entered Mode 2.
July 29	0450	Reactor critical.
July 29	1254	Entered Mode 1.
July 29	1420	Unit synchronized.
July 29	2353	Reactor power at 50%, turbine load at 480 MWe gross.
July 30	0625	Reactor power at 96%.
July 30	1150	Commenced reduction of reactor power to remove seaweed from condenser water boxes and repair traveling rakes and screens.
July 30	1220	Reactor power at 71%, turbine load at 780 MWe gross.
July 30	2100	Reactor power at 22%, turbine load at 180 MWe gross. Began cleaning condenser water boxes and repairing traveling rakes and screens.
July 31	1710	Unit manually tripped as part of "Loss of Offsite Power Trip Test."
July 31	2359	Unit is in Mode 3, 544°F. Preparations are in progress for return to power and continuation of power ascension program.

REFUELING INFORMATION

DOCKET NO.	50-361
UNIT	SONGS - 2
DATE	August 12, 1983
COMPLETED BY	L. Mayweather
TELEPHONE	(714) 492-7700 Ext. 56223

1. Scheduled date for next refueling shutdown.

   Not yet determined.

2. Scheduled date for restart following refueling.

   Not yet determined.

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

   Not yet determined.

   What will these be?

   Not yet determined.

4. Scheduled date for submitting proposed licensing action and supporting information.

   Not yet determined.

5. Important Licensing considerations associated with refueling, e.g. new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.

   Not yet determined.

6. The number of fuel assemblies.

   a) In the core. 217

   b) In the spent fuel storage pool. 0

7. Licensed spent fuel storage capacity. 800

   Intended change in spent fuel storage capacity. NA

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

   NA

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-362
UNIT NAME SONGS - 3
DATE August 12, 1983
COMPLETED BY L. Mayweather
TELEPHONE (714) 492-7700
Ext. 56223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: 1 July 1983 through 31 July 1983
3. Licensed Thermal Power (MWt): 3,390
4. Nameplate Rating (Gross MWe): 1,127
5. Design Electrical Rating (Net MWe): 1,087
6. Maximum Dependable Capacity (Gross MWe): 1,127
7. Maximum Dependable Capacity (Net MWe): 1,087
8. If Changes Occur In Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
   NA
9. Power Level To Which Restricted, If Any (Net MWe): NA
10. Reasons For Restrictions, If Any: NA

		This Month	Yr.-to-Date	Cumulative
11.	Hours In Reporting Period	744	5,087	6,215
12.	Number Of Hours Reactor Was Critical	0	0	0
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	0	0	0
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	0	0	0
17.	Gross Electrical Energy Generated (MWH)	0	0	0
18.	Net Electrical Energy Generated (MWH)	0	0	0
19.	Unit Service Factor	NA	NA	NA
20.	Unit Availability Factor	NA	NA	NA
21.	Unit Capacity Factor (Using MDC Net)	0	0	0
22.	Unit Capacity Factor (Using DER Net)	0	0	0
23.	Unit Forced Outage Rate	0	0	0

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
    None
25. If Shutdown At End Of Report Period, Estimated Date of Startup: NA
26. Units In Test Status (Prior To Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	Under Review	
INITIAL ELECTRICITY	Under Review	
COMMERCIAL OPERATION	Under Review	

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-362

UNIT SONGS - 3

DATE August 12, 1983

COMPLETED BY L. Mayweather

TELEPHONE (714) 492-7700 Ext. 56223

MONTH: July 1983

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0	31	0
16	0		

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JULY, 1983

DOCKET NO. 50-362
UNIT NAME SONGS - 3
DATE August 12, 1983
COMPLETED BY L. Mayweather
TELEPHONE (714) 492-7700
Ext. 56223

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	LER No.	System Code[4]	Component Code[5]	Cause & Corrective Action to Prevent Recurrence
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

1
F-Forced
S-Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Continuation from Previous Month
5-Reduction of 20% or Greater in the Past 24 Hours
6-Other (Explain)

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Exhibit H-Same Source

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	50-362
UNIT	SONGS - 3
DATE	August 12, 1983
COMPLETED BY	L. Mayweather
TELEPHONE	(714) 492-7700 Ext. 56223

July 1	0001	Unit is in Mode 5. Replacement of the bearings on Auxilary Feedwater (AFW) Pumps P-141 and P-504 is in progress.
July 4	1703	Entered Mode 4.
July 5	0810	AFW Pump P-141 declared operable following 24-hour endurance run.
July 10	1205	Experienced high vibration on AFW Pump P-504.
July 12	0600	AFW Pump P-504's motor removed and shipped to the vendor for repair.
July 14	1015	Discovered possibility of isolation of the normal fuel supply to both diesel generators caused by an incomplete Abnormal Valve Alignment. As a precautionary measure, cooldown to Mode 5 was immediately initiated while verification of valve alignment was being checked.
July 14	1100	Unusual Event declared due to the Abnormal Valve Alignment.
July 14	1110	Valves correctly aligned and Mode 5 cooldown and Unusual Event terminated.
July 22	1745	Entered Mode 5.
July 31	2359	Unit remains in Mode 5, 140°F., awaiting repair of AFW Pump P-504.

REFUELING INFORMATION

DOCKET NO.	50-362
UNIT	SONGS - 3
DATE	August 12, 1983
COMPLETED BY	L. Mayweather
TELEPHONE	(714) 492-7700 Ext. 56223

1. Scheduled date for next refueling shutdown.

   Not yet determined.

2. Scheduled date for restart following refueling.

   Not yet determined.

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

   Not yet determined.

   What will these be?

   Not yet determined.

4. Scheduled date for submitting proposed licensing action and supporting information.

   Not yet determined.

5. Important Licensing considerations associated with refueling, e.g. new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.

   Not yet determined.

6. The number of fuel assemblies.

   a) In the core. 217

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7. Licensed spent fuel storage capacity. 800

   Intended change in spent fuel storage capacity. NA

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

   NA

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