Southern California Edison Company 23 PARKER STREET IRVINE, CALIFORNIA 92718 January 15, 1990 F. R. NANDY TELEPHONE MANAGER OF NUCLEAR LICENSING (714) 587-5400 U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555 Subject: Docket No. 50-206 Monthly Operating Report for December 1989 San Onofre Nuclear Generating Station, Unit 1 The purpose of this letter is to provide the Monthly Operating Report required by Section 6.9.1.10 of Appendix A, Technical Specifications to Provisional Operating License DPR-13 for San Onofre Nuclear Generating Station, Unit 1. If you require additional information, please let me know.

Very truly yours,

**Enclosures** 

J. B. Martin (Regional Administrator, USNRC Region V) C. W. Caldwell (USNRC Senior Resident Inspector, Units 1, 2 and 3) Institute of Nuclear Power Operations (INPO)

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# NRC MONTHLY OPERATING REPORT

		TELEPHONE:	<u>(714)</u> 368-	·6223
	OPERATING STATUS			
1	Unit Name: San Onofre Nuclear Consest:	na Ctation II.i	4 1	
2	Unit Name: <u>San Onofre Nuclear Generati</u> Reporting Period: <u>December 1989</u>	ng Station, Uni	t 1	
3.	Licensed Thermal Power (MWt):	1347		
4.	Nameplate Rating (Gross MWe):	456		
5.	Design Electrical Rating (Net MWe):	436		
6.	Maximum Dependable Capacity (Gross MWe)			
7.	Maximum Dependable Capacity (Net MWe):	436		
8.	If Changes Occur In Capacity Ratings (I	tems Number 3 T	hrough 7)	
	Since Last Report, Give Reasons:	NA		
			· · · · · · · · · · · · · · · · · · ·	
_	D			
9.	Power Level To Which Restricted, If Any	(Net MWe):	390	<del></del>
10.	Reasons For Restrictions, If Any: Self	-imposed power	<u>level limit</u>	to control
	Steam Generator tube corrosion		<del>,</del>	
		. ==		
		This Month Yr	·to-Date	Cumulative
11.	Hours In Reporting Period	744.00	8,760.00	197,648.00
	Number Of Hours Reactor Was Critical	702.58	3,582.65	113,861.84
	Reactor Reserve Shutdown Hours	0.00	0.00	0.00
	Hours Generator On-Line	696.42	3,458.99	109,679.48
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.	Gross Thermal Energy Generated (MWH)	844,387.32 3,9		137,569,847.12
17.	Gross Electrical Energy Generated (MWH)	278,400.00 1,2		
18.	Net Electrical Energy Generated (MWH)	<u>262,258.00</u> <u>1,1</u>	66,402.00	43,762,420.00
	Unit Service Factor	<u>93.60%</u>	39.37%	55.49%
	Unit Availability Factor	<u>93.60%</u>	<u>39.37%</u>	55.49%
21.	Unit Capacity Factor (Using MDC Net)	80.85%	30.54%	50.78%
22.	Unit Capacity Factor (Using DER Net)	80.85%	30.54%	50.78%
23.	Unit Forced Outage Rate	6.40%	28.41%	19.82%
24.	Shutdowns Scheduled Over Next 6 Months	(Type, Date, an		
			N	Α
25.	If Shutdown At End Of Report Period, Est	timated Date of	Ctantun	NA NA
26.	Units In Test Status (Prior To Commercia	al Oneration).	Forecast	
		a. operacion).	i vi ecast	Achieved
	INITIAL CRITICALITY		NA	NA
	INITIAL ELECTRICITY		NA NA	NA NA
	COMMERCIAL OPERATION	•	NA	NA NA

DOCKET NO: 50-206 UNIT NAME: SONGS - 1

DATE: <u>January 15, 1990</u>
COMPLETED BY: <u>E. R. Siacor</u>

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-206 UNIT NAME: SONGS - 1

DATE: January 15, 1990
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH	: <u>December 1989</u>		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	380.71	· 17	381.67
2	382.50	18	381.54
3	383.00	19	382.00
4	383.11	20	381.54
5	382.83	21	381.29
6	345.83	22	382.04
7	0.00	23	382.13
8	0.00	24	382.92
9	296.04	25	382.79
10	378.17	26	383.42
11	380.83	27	383.50
12	381.88	28	383.00
13	382.08	29	382.71
14	382.00	30	382.75
15	382.63	31	381.58
16	381.92		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: DECEMBER 1989

DOCKET NO: <u>50-206</u>

UNIT NAME: SONGS - 1

DATE: <u>January 15, 1990</u>

COMPLETED BY: E. R. Siacor

TELEPHONE: (714) 368-6223

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Ac	Corrective tion to Recurrence
135	891206	F	47.58	A	1	89-028	LE	RG	power was compl containment iso inoperable for due to inadequa system (BNS) su & reseating of to leakage past out of 5 pressu determined to h loss of nitroge assumed in the The 3 regulator returned to ser next refueling designed to red	
<sup>1</sup> F-Forced S-Scheduled			<sup>2</sup> Reason: A-Equipment Failure (Explain) B-Maintenance or Test C-Refueling D-Regulatory Restriction E-Operator Training & License Ex F-Administrative G-Operational Error (Explain) H-Other (Explain)			Examinati	on	1-Manual 2-Manual Scram. 3-Automatic Scram. 4-Continuation from Previous Month		<sup>4</sup> IEEE Std 805-1984 <sup>5</sup> IEEE Std 803A-1983

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# SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-206 UNIT NAME: SONGS - 1

DATE: January 15, 1990

COMPLETED BY: E. R. Siacor

TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
December 1	0001	Unit is in Mode 1 at 91% reactor power. Turbine load at 401 MWe gross.
December 6	2018	Commenced a Technical Specification required shutdown from 91% reactor power to perform repairs on the backup nitrogen system regulators (BNS) for HV-851A.
	2043	Unusual Event declared.
	2130	Unusual Event terminated.
	2343	Turbine manually tripped. Unit off line.
	2349	Entered Mode 3.
December 8	1655	Commenced reactor startup following completion of repairs to the BNS regulators for HV-851A.
	1735	Entered Mode 2.
	1747	Reactor made critical.
	2130	Entered Mode 1.
	2318	Unit synchronized to the grid. Continuing reactor power increase to 70%.

## SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-206

UNIT NAME: SONGS - 1
DATE: January 15,
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223 1990

<u>Date</u>	<u>Time</u>	<u>Event</u>
December 9	0405	Reactor at 70% power. Commenced heat treating operations for the circulating water tunnels.
	0934	Completed heat treating operations. Commenced reactor power increase.
	1110	Reactor at 92% power.
December 31	2400	Unit is in Mode 1 at 91% power. Turbine load at 402 MWe gross.

#### REFUELING INFORMATION

DOCKET NO: <u>50-206</u>

UNIT NAME: SONGS - 1

DATE: Janua

January 15, 1990

COMPLETED BY:

E. R. Siacor

TELEPHONE: (714) 368-6223

MONTH: <u>December 1989</u>

1. Scheduled date for next refueling shutdown.

June 30, 1990

2. Scheduled date for restart following refueling.

November 1990

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

Yes.

What will these be?

- a) License Amendment associated with the resolution of the 480V breaker overload issue.
- b) License Amendment associated with removal of the license condition related to the TDI diesel generators.
- c) License Amendment associated with revision of the basis to Technical Specification 3.3.1, "Safety Injection and Containment Spray", and resolution of other issues related to TS 3.3.1 which were identified during Cycle 10 refueling.

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# REFUELING INFORMATION

		DOCKET NO: 50-206 UNIT NAME: SONGS - 1 DATE: January 15, 19 COMPLETED BY: E. R. Siacor TELEPHONE: (714) 368-6223
MONTI	H: <u>Dec</u>	ember 1989
4.	Scheduled informati	date for submitting proposed licensing action and supporting
	a)	SCE expects to submit the license amendment associated with the 480V breaker overload issue in February 1990.
	b)	SCE expects to submit the request to remove the TDI diesel generator license condition in February 1990.
	c)	SCE expects to submit the request to revise the basis and resolve other issues related to TS 3.3.1 in April 1990.
5.	different	Licensing considerations associated with refueling, e.g. new or fuel design or supplier, unreviewed design or performance analysis significant changes in fuel design, new operating procedures.
	None	have been identified at this time.
6.	The numbe	r of fuel assemblies.
	a)	In the core. <u>157</u>
	b)	In the spent fuel storage pool <u>59</u>
7.	Licensed	spent fuel storage capacity. <u>216</u>
	Intended	change in spent fuel storage capacity. <u>None</u>
8.		date of last refueling that can be discharged to spent fuel
	Approxima	tely 1995 (refueling only)
	Approxima	tely 1991 (full off load capability)