SUMMARY OF PLANT OPERATIONS

On April 22, 1982, the plant went into a scheduled outage for inspection and repair of the OTSG Auxiliary Feedwater Ring Headers—this outage was terminated this month.

On August 19, 1982, the Reactor was brought critical and on August 20, 1982, the unit was brought on line. While attempting to come up to full power, the unit experienced two turbine trips and was also twice manually taken off line (detailed in Unit Shutdowns and Power Reductions). On August 27, 1982, the unit was brought on line again and began increasing power to 95% full power, the present state of the plant.

PERSONNEL CHANGES REQUIRING REPORT

No personnel changes that require reporting in accordance with Technical Specifications Figure 6.2-2 were made in August 1982.

SUMMARY OF CHANGES IN ACCORDANCE WITH 10 CFR 50.59(b)

One change was made in August--the resupporting of RCP motor lube oil collection system. (See attachment.)

MAJOR ITEMS OF SAFETY RELATED MAINTENANCE

- 1. Replaced "B" CRD Breaker 480V
- Completed the OTSG Auxiliary Feedwater Ring Headers repair and modification, including:
 - a. The Appendix R modifications committed to be performed during any unscheduled outage greater than 120 days were completed.
 - b. Those items from the Technical Specifications Refueling interval surveillance program, for which relief was not requested by Technical Specification amendment, were successfully completed.
 - c. At the District's option, a complete refueling interval ISI on both OTSGs was performed. A detailed list of those OTSG tubes precautionarily removed from service was included in the Auxiliary Feedwater transmittal to the Commission in response to questions (response dated August 3, 1982). Total tubes plugged were: OTSG A, ten tubes; OTSG B, nine tubes.
 - d. Prior to this shutdown, the makeup pump was out of service pending repairing of its electrical motor. During the outage, that pump was returned to service.

MAJOR ITEMS OF SAFETY RELATED MAINTENANCE Cont.

- e. Work was done on both decay heat pump seals as a result of small leaks. Both diesel generators had only normal maintenance performed on them during the outage.
- f. Two high pressure injection nozzles into the RCS cold legs had their thermal sleeves replaced with a new design.
- g. Both OTSGs have had their Internal Auxiliary Feedwater Headers abandoned and replaced with new External Auxiliary Feedwater Ring Headers. Tests to demonstrate the adequacy of this modification were successfully performed.
- h. The pressurizer spray valves and EMOV block valve were all reworked for operability during the outage.
- A component cooling water Reactor Building isolation valve operator was overhauled.
- j. Both safety features' Auxiliary Feedwater control valves had their torque switches reset to provide higher closing torque.
- k. Two instrument system root valves to the Reactor Coolant System were reworked.

OPERATING DATA REPORT

DOCKET NO. 50-312

DATE 82-08-31

COMPLETED BY R. Colombo
TELEPHONE (916) 452-3211

OPERATING STATUS

1	Unit Name: Rancho	Notes						
2	Reporting Period:	August 1982						
3.	Licensed Thermal Power (MWt):							
	Nameplate Rating (Gross MWe):							
	Design Electrical Rating (Net MWe):	010						
	Maximum Dependable Capacity (Gross MWe):	017						
	Maximum Dependable Capacity (Net MWe):	873						
	If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:							
_		N/A						
9	Power Level To Which Restricted. If Any (Net M	(We): N/A						
	Reasons For Restrictions, If Any:	N/A						
		This Month	Yrto-Date	Cumulative				
11	Hours In Reporting Period	744	5831	64,632				
	Number Of Hours Reactor Was Critical	285.3	2503.6	37,740.2				
	Reactor Reserve Shutdown Hours	451.2	2855.2	9,313.8				
	Hours Generator On-Line	242.7	2395.6	36,166.0				
	Unit Reserve Shutdown Hours	0	0	1,210.2				
	Gross Thermal Energy Generated (MWH)	555,363	5,258,301	91,153,413				
	Gross Electrical Energy Generated (MWH)	1,754,866	30,516,29					
	Net Electrical Energy Generated (MWH)	160,427	1,639,505	28,796,622				
	Unit Service Factor	32.6%	41.1%	56.0%				
20.	Unit Availability Factor	32.6%	41.1%	57.8%				
21.	Unit Capacity Factor (Using MDC Net)	24.7%	32.2%	51.0%				
22.	Unit Capacity Factor (Using DER Net)	23.5%	30.6%	48.6%				
3.	Unit Forced Outage Rate	7.2%	1.2% 29.8%					
24.	Shutdowns Scheduled Over Next 6 Months (Typ	e, Date, and Duration	of Each):					
	TMI Modifications, January 1983,	6 months						
-								
	If Shut Down At End Of Report Period, Estimat							
26.	Units In Test Status (Prior to Commercial Opera	Forecast	Achieved					
	INITIAL CRITICALITY	N/A_	N/A					
	INITIAL ELECTRICITY		N/A	N/A				
			AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON					

UNIT SHUTDOWNS AND POWER REDUCTIONS

50-312 DOCKET NO. UNIT NAME Rancho Seco Unit 1 DATE 82-08-31 COMPLETED BY J. Edwards TELEPHONE (916) 452-3211

REPORT MONTH AUGUST 1982

No.	Date	Type1	Duration (Hours)	Reason-	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code4	Component Code5	Cause & Corrective . Action to Prevent Recurrence
07	82-04-03	S	451	В	1	82-010-01T	СН	HTEXCH	Repair and modify OTSG Auxiliary Feedwater Ring Headers.
08	82-08-20	F	0.5	Α	3	N/A	НА	MECFUN	Suspected causeturbine electro- hydraulic control system malfunction; no corrective action at this time.
09	82-08-21	F	2.0	В	1	N/A	HA	MECFUN	
10	82-08-25	F	9	В	3	N/A	HA	MECFUN	
11	82-08-27	F	6.5	В	1	N/A	HA	MECFUN	Defective auto stop control pressure valve in turbine electro-hydraulic control system; valve replaced.

F: Forced S: Scheduled

A-Equipment Failure (Explain) B-Maintenance of 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-Other (Explain)

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

Exhibit 1 - Same Source

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

UNIT Rancho Seco

DATE 82-08-31

COMPLETED BY J. Edwards

TELEPHONE (916) 452-3211

AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
0	17	0
0	18	0
0	19	0
0	20	0
0	21	0
0	22	284
0	23	646
0	24	827
. 0	25	390
0	26	818
0	27	666
0	28	798
0	29	814
0	30	826
0	31	804-
0		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

REFUELING INFORMATION REQUEST

1982
e

1.	DESCRIPTION: Re-support of RCP Motor luke oil collection system.
	NCR ECN A-3438
2.	SAFETY ANALYSIS:
	Attached
	Licensing Engineer Date Manager Generation Engineering Date
3.	PRC RECOMMENDATION: 50.59(a) Yes □ No ☑ · 50.59(b) Yes ☒ No □
	DISPOSITION OF PRC:
	a. Unanimously recommends proposal 🛛 d. Safety analysis inadequate 🔲
	b. Send to MSRC for concurrence e. MSRC review prior to implementing
	c. Recommends not to proceed
	PRC Chairman Date
Ξ.	ANALYSIS: 50.59(a) Yes Recommend to Proceed Yes No
	No Refer to MSRC
	No 1
	Plant Superintendent Date
Ē.	MSRC FINDINGS: 50.59(a) Yes ☐ No ☑ 50.59(b) Yes ☑ No ☐
	DISPOSITION OF MSRC:
	a. Recommends proposal c. Recommends not to proceed b. Send to NRC for approval d. Safety analysis inadequate , ,
	Ihn 9 mattina 4/29/8:
_	COMMISSION APPROVAL OBTAINED MSRC Chairman / Date
	PLANT WORK SAD
-	Date MSRC Chairman
7.	RETEST COMPLETE AND ACCEPTABLE: Test results approved ON 6.602 1882
	Supervisor Engineering and not
0	Quality Control OVERALL REVIEW: Diant modification change complete
	OVERALL REVIEW: Plant modification change complete.
A.E	we complete on a grows " Koun of Milately Manager Wiclear Operations Date
ş.	DOCUMENTATION COMPLETE:
	9.11. Schwieger 8-13-82
544	Quality Assurance Director Date

Log No. 241

SAFETY ANALYSIS FORMAT

RANCHO SECO NUCLEAR GENERATING STATION UNIT NO. 1

ECN	A-3438	NCR	Work Request
oil	RIPTION: This catch pans and ection tank ve	drain piping. Flame a	o the reactor coolant pump motor lube rrestors will be installed on the
The	analysis is de	scribed in the Design B	asis Report.
Pump	ON FOR CHANGE: Motor lube of down Earthquak	1 catch pans and drain	50 requires that the Reactor Coolant lines be able to withstand the Safe
Appe if a	ndix R also re danger of fla	equires the addition of ashback exists.	flame arrestors to the drain tanks
EVAL	UATION AND BAS	IS FOR THE SAFETY FINDI	NGS:
The	design change e any new safe	does not affect any execty questions.	sting safety analyses nor does it
redu	e changes fur ice the probab is earthquake.	ther reduce the probabi ility of damage to non	ity of a fire inside containment and safety-related equipment during a design
pro or F:	onsequences of reviously eval	an accident or mailing uated in the FSAR or cr	
	ETHEING.		ON AUG 02 1982
No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, Original Property and Name of Stree	ETY FINDING:		MANCHO SLCO
XI.	he proposed ch r an unresolve	nange does not involve a ed safety question.	change in the Technical Specification
	i Fasina	D. A.	Date 3/17/8/
	censing Engine	To Day	2/12/01
Re	view Engineer	Lee K De	chan pate S/1/01

SMUD-0913 13/77

DESIGN BASIS REPORT

ECN	A-3438	NCR	Work Request
Disc	cipline: Mechanical		Date: March 11, 1981
1	PURPOSE OF DESIGN	CHANGE:	
	Appendix R to 10CF oil catch pans and	R 50 requires that the Red drain lines be able to wi	eactor Coolant Pump Motor lube ithstand the Safe Shutdown Earthquake
11	. DESIGN CRITERIA US	ED:	
	to the motor Material strengt ASTM specificati - The seismic resp	hs were assumed to be the	and including the attachment bolts in minimums allowed by the applicable of the Containment used in the analysis.
III	. CALCULATIONS AND D	ESIGN INFORMATION:	
	Attached		
	Note: The attache this report completed.	d calculations present t will be revised when th	he analysis of the catch pans only; e analysis of the drain piping is
·IV	. FAILURE MODE:		
	No failure mode is in containment is	associated with this de reduced by this change.	sign review. Probability of a fire
V	. COMMENTS:		
	Additional bracing under ECN A-3438.	was found necessary in	The analysis and will be added PLANT WORK BASS BEEN COMPLETED
			ON AUG 02 1982
	Design Engineer	mes C File	Date 3/20/2000 MENT CONTROL
,	Review Enginee	e il Seilin	Spate 3/16/81
	Rev 1 - 3/15/	182 - Addition of - This revision Analysis. 88 Field 3/15	piping analysis summary. does not affect the Safety