

NARRATIVE SUMMARY OF PLANT OPERATIONS

- 11-1 thru      Plant operating at approximately 100% full power. Performed  
11-16      routine surveillance and preventive maintenance items.
- 11-17  
(0016)      Started reducing Reactor power from 100% (~910 MWe) at 15 MW/minute to inspect inaccessible snubbers in the Reactor Building and to initiate the new under/over voltage protection scheme for the vital buses.
- (0107)      Generator off line (opened OCB's 220 and 230).
- (0109)      Tripped Turbine.
- (0130)      Holding Reactor at  $10^{-8}$  amps.
- (2233)      Maintenance/modifications complete - reactor at 8% power.
- (2338)      Reactor at 15% power.
- (2358)      Generator on line (closed OCB's 220 and 230).
- 11-18  
(0011)      Raising Reactor power to 92%. At 17% power (~170 MWe), the "B" Reheater Safety Valve lifted and would not reseal. Started load reduction.
- (0215)      Generator off line (opened OCB's 220 and 230).
- (0408)      Generator on line (closed OCB's 220 and 230).
- (0409)      Raising Reactor power.
- (0449)      Reactor at 17% power (~170 MWe). The "B" Reheater Safety Valve lifted and would not reseal. Separated from grid (opened OCB's 220 and 230).
- (0700)      Closed OCB's and began Reactor power escalation.
- (0721)      Stopped escalation due to "B" Reheater Safety Valve failing to reseal.
- (0730)      Reactor at 25% (~220 MWe). Began reducing power to separate from grid to perform repairs to "B" Reheater Safety Valve.
- (0843)      Generator off line (opened OCB's 220 and 230).
- (1123)      Repairs complete - generator on line (closed OCB's 220 and 230).
- (1124)      Raising Reactor power.

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- (1231) Stopped power ascent at 55% power (400 MWe) due to vacuum problem and power imbalance.
- (1514) Problems improved. Started increasing power to 92%.
- (1545) Reactor at 72% power (672 MWe).
- (1710) Reactor at 88% power (800 MWe) for 2-hour hold.
- (2035) Increasing Reactor power to 100%.
- (2330) Reactor at 100% full power.

11-19

- (0102) Began reducing power to 10%, developed electro hydraulic oil leak on #1 Intercept Valve.
- (0131) Reactor at 20% power (180 MWe).
- (0135) Turbine generator at 90 MWe (10% power).
- (0528) Started increasing Reactor power to 92% after replacing "O" ring in #1 Intercept Trip Solenoid Valve.
- (0835) Reactor at 87% power (785 MWe) for 2-hour hold.
- (1035) Raising Reactor power to 100%.
- (1110) Reactor at 100% full power.

11-25

- (0147) Secured Makeup Pump due to weld leak at intersection of Drain Valve SIM-579 line and HPI header (23620-4" CA) on discharge side of M.U. Pump (p-236). Started shutdown at 1 MW/minute.
- (0240) Increased shutdown rate to 10 MW/minute due to the leak being non-isolable from supply header.
- (0355) Unit off line (opened OCB's 220 and 230).
- (0357) Tripped Turbine.
- (0420) Reactor at  $10^{-8}$  amps.
- (0612) Tripped Reactor.
- (1630) Stopped RCS cooldown at 430°F and 1500 psig.
- (2130) Leak secured. Started RCS heatup.

11-26

- (0415) Reactor in Hot Shutdown Mode.
- (0550) Started deboration of Reactor Coolant System.

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- (1335) Reactor critical.
- (1414) Reactor at  $10^{-8}$  amps.
- (1424) Reactor at 1% power.
- (1530) Reactor at 10% power.
- (1600) Reactor at 12% power.
- (2210) Maintained Reactor at 12% power while processing water to restore the Reactor Coolant Drain System Tank level to sufficient level to allow normal power operation.

11-27

- (0100) Started "A" HPI and secured Makeup Pump due to low oil pressure alarm.
- (0800) Reactor at 12% power.
- (1210) Unit on line (closed OCB's 220 and 230).
- (1321) Reactor at 50% power (450 MWe) and holding for improved balance.
- (1450) Began increasing Reactor power to 72% for 5-hour hold.
- (1553) Reactor at 72% power (640 MWe) for 5-hour hold.
- (2100) Holding power - waiting completion of leak rate calculation.

11-28

- (0255) Received acceptable leak rate calculation and began power escalation to 92%.
- (0408) Reactor at 92% (820 MWe) for 2-hour hold.
- (0613) Raising power to 100%.
- (0645) Stopped power escalation at 97% power due to inability to place #8 Condensate Polisher in service (inlet valve will not open).

11-29

- (0000) Reactor at 90% (820 MWe).
- (1228) Raising Reactor power to 100%.
- (1318) Reactor at 100% (900 MWe).

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PERSONNEL CHANGES REQUIRING REPORTING

No personnel changes that require reporting in accordance with Technical Specifications Figure 6.9-2 were made in November, 1979.

MAJOR ITEMS OF SAFETY-RELATED MAINTENANCE

1. Continued inspection/testing of pipe supports; repaired or replaced as necessary to meet the new criteria covered in Bulletin 79-02.
2. Rebuilt and/or filled three snubbers found low on oil during snubber inspection (LER 79-16, LER 69-18).
3. Changed setpoints of over/under voltage protection scheme for the Vital Buses.
4. Repaired weld on stub of Drain Valve SIM-579 line at intersection with HPI Header (23620-4"-CA) on discharge side Makeup Pump (LER 79-19).

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

No changes, tests, or experiments were completed in September, 1979, which constituted a change in a safety analysis report description.

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# POOR ORIGINAL

## REFUELING INFORMATION REQUEST

1. Name of Facility: Rancho Seco Unit 1
2. Scheduled date for next refueling shutdown: January 19, 1979
3. Scheduled date for restart following refueling: March, 1979
4. Technical Specification change or other license amendment required:
  - a) Change to Rod Index vs. Power Level Curve (TS 3.5.2)
  - b) Change to Core Imbalance vs. Power Level Curve (TS 3.5.2)
  - c) Tilt Limits (TS 3.5.2)
  - d) Safety Equipment Testing (TS 3.3.3)
5. Scheduled date(s) for submitting proposed licensing action: December, 1979
6. Important licensing considerations associated with refueling: None
7. Number of fuel assemblies:
  - a) In the core: 177
  - b) In the Spent Fuel Pool: 112
8. Present licensed spent fuel capacity: 579
9. Projected date of the last refueling that can be discharged to the Spent Fuel Pool: 1987

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**AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO. 50-312

UNIT Rancho Seco Unit 1

DATE 79-11-30

COMPLETED BY R. W. Colombo

TELEPHONE 916-452-3211

MONTH November

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	867
2	868
3	868
4	867
5	865
6	860
7	865
8	866
9	868
10	867
11	863
12	862
13	863
14	862
15	861
16	861

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	0
18	333
19	654
20	860
21	854
22	863
23	865
24	861
25	93
26	0
27	231
28	764
29	814
30	861
31	-

**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.

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# POOR ORIGINAL

## OPERATING DATA REPORT

DOCKET NO 50-312  
DATE 79-11-30  
COMPLETED BY R. W. Colombo  
TELEPHONE 916-452-3211

### OPERATING STATUS

- 1. Unit Name: Rancho Seco Unit One
- 2. Reporting Period: November 1979
- 3. Licensed Thermal Power (MWt): 2772
- 4. Nameplate Rating (Gross MWe): 963
- 5. Design Electrical Rating (Net MWe): 918
- 6. Maximum Dependable Capacity (Gross MWe): 917
- 7. Maximum Dependable Capacity (Net MWe): 873
- 8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:  
N/A

Notes Scheduled outage on November 17 to inspect inaccessible snubbers and to initiate the under/over voltage protection scheme for the vital buses.

- 9. Power Level To Which Restricted, If Any (Net MWe): N/A
- 10. Reasons For Restrictions, If Any: N/A

	This Month	Yr. to-Date	Cumulative
11. Hours In Reporting Period	720	8,016	40,513
12. Number Of Hours Reactor Was Critical	691.8	6,258.7	25,329.5
13. Reactor Reserve Shutdown Hours	0	1,557.7	3,975.1
14. Hours Generator On-Line	634.5	6,034.1	24,197.3
15. Unit Reserve Shutdown Hours	0	1,199.3	1,210.2
16. Gross Thermal Energy Generated (MWH)	1,709,887	16,463,692	61,536,848
17. Gross Electrical Energy Generated (MWH)	544,771	5,353,130	20,615,930
18. Net Electrical Energy Generated (MWH)	514,811	5,075,584	19,474,474
19. Unit Service Factor	88.1	75.3	59.7
20. Unit Availability Factor	88.1	90.2	62.7
21. Unit Capacity Factor (Using MDC Net)	81.9	72.5	55.1
22. Unit Capacity Factor (Using DER Net)	77.9	69.0	52.4
23. Unit Forced Outage Rate	9.0	6.2	32.7

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
Refueling: January 1980-duration approximately 60 days.

- 25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A
- 26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	<u>N/A</u>	<u>N/A</u>
INITIAL ELECTRICITY	<u>N/A</u>	<u>N/A</u>
COMMERCIAL OPERATION	<u>N/A</u>	<u>N/A</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-312  
 UNIT NAME Rancho Seco Unit 1  
 DATE 79-11-30  
 COMPLETED BY R. W. Colombo  
 TELEPHONE 916-452-3211

REPORT MONTH November, 1979

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
14	79-11-17	S	22.8	B	1	N/A	N/A	N/A	Inspected inaccessible snubbers and initiated the new under/over voltage protection scheme for the vital buses. "B" Reheater Safety Valve lifted and would not reset. "B" Reheater Safety Valve lifted and would not reset. "B" Reheater Safety Valve lifted and would not reset. Valve repaired. Reduced Reactor power to 10% due to an Electrohydraulic oil leak on #1 Intercept Valve. Valve Trip Solenoid repaired.
15	79-11-18	F	1.9	A	1	N/A	N/A	N/A	
16	79-11-18	F	2.2	A	1	N/A	N/A	N/A	
17	79-11-18	F	2.7	A	1	N/A	N/A	N/A	
18	79-11-19	F	0	A	1	N/A	N/A	N/A	
19	79-25-79	F	55.9	A	1	79-019/03 L-0	SF	PIPEXX	

POOR ORIGINAL

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<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 Examination  
F-Administrative  
G-Operational Error (Explain)  
H-Other (Explain)

<sup>3</sup> Method:  
1-Manual  
2-Manual Scram.  
3-Automatic Scram.  
4-Other (Explain)

<sup>4</sup> Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

<sup>5</sup> Exhibit I - Same Source

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