



SACRAMENTO MUNICIPAL UTILITY DISTRICT □ 6201 S Street, P.O. Box 15830, Sacramento CA 95852-1830, (916) 452-3211  
AN ELECTRIC SYSTEM SERVING THE HEART OF CALIFORNIA

NL 90-008

January 15, 1990

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Docket No. 30-312  
Rancho Seco Nuclear Generating Station  
License No. DPR-54  
**OPERATING PLANT STATUS REPORT**

Attention: George Knighton

Enclosed is the December 1989 Monthly Operating Plant Status Report for the Rancho Seco Nuclear Generating Station. The District submits this report pursuant to Technical Specification 6.9.3.

Sincerely,

Steve L. Crunk  
Nuclear Licensing Manager

Encl (5)

cc w/encl: J. B. Martin, NRC, Walnut Creek  
A. D'Angelo, NRC, Rancho Seco  
INPO  
R. Twilley, Jr.

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## DECEMBER 1989

### SUMMARY OF PLANT OPERATIONS

At the end of November, 23 of the 177 fuel assemblies had been removed from the core. The last fuel assembly was removed from the core and placed in the Spent Fuel Pool at approximately 1030 hours on Friday, December 8, 1989.

### SUMMARY OF CHANGES IN ACCORDANCE WITH 10 CFR 50.59

There were no documentation packages completed for facility changes, procedure changes, tests or experiments during December 1989.

### MAJOR SAFETY-RELATED MAINTENANCE, TESTS AND MODIFICATIONS NOT REQUIRING DETAILED SAFETY ANALYSES

1. During December 1989 repairs were made on the main fuel handling bridge in support of defueling. Routine maintenance was performed on "B" TDI diesel generator. Work continued on the dehumidifiers for the turbine-generator. Retention basin radiation monitors were worked on. The self powered neutron detector (SPND) was pulled out of the reactor vessel and the SPND plugging assembly tested and installed. The auxiliary fuel handling bridge was transferred from the containment building to the Interim On-site Storage Facility. Cleaning of the reactor vessel closure studs was started. The reactor vessel was inspected. The fuel transfer canal was drained to below the top of the reactor vessel in preparation for canal decontamination. Reactor core flood tanks were drained in preparation for reactor coolant system lay-up. Also, the indexing fixture was installed prior to installing the Plenum Assembly.
2. Breaker 3D10 cell switch contact was wired in parallel with breaker 52/b auxiliary contact in the damper CLOSE circuit under DCP R88-0120. The purpose of this modification is to allow closing the Reactor Building purge dilution damper HV-53602 when circuit breaker 3D10 for the purge air heater EDH-A-525 is racked out to the TEST or DISCONNECT positions or removed from the switchgear for testing, maintenance or repair.
3. A mass balance of the Spent Fuel Pool (SFP) and separate mass balances for low SFP level and high SFP level were performed under STP.1242, Spent Fuel Pool Mass Balance. STP.1242 also was used to identify the general areas of leakage and leak flow and to collect data for a heat balance determination. A review of the test results shows that the Acceptance Criteria was met. The general area of leakage is on the North wall of the SFP. Mass balances at high and low levels were calculated and it was determined that no unidentified leakage exists based primarily on the results of the constant temperature tests.

REFUELING INFORMATION REQUEST

1. Name of Facility Rancho Seco
2. Scheduled date for next refueling shutdown: \*
3. Scheduled date for restart following refueling: \*
4. Technical Specification change or other license amendment required: \*
5. Scheduled date(s) for submitting proposed licensing action: \*
6. Important licensing considerations associated with refueling: \*
7. Number of fuel assemblies:
  - a) In the core: 0
  - b) In the Spent Fuel Pool: 493
8. Present licensed spent fuel capacity: 1080
9. Projected date of the last refueling that can be discharged to the Spent Fuel Pool: December 3, 2001

\* Plant shut down June 7 following negative outcome of public vote regarding continued operation of Rancho Seco by SMUD.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-312  
 UNIT Rancho Seco  
 DATE 12/31/89  
 COMPLETED BY Marla Mueller  
 TELEPHONE (916) 452-3211

MONTH December 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</u>

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.

OPERATING DATA REPORT

DOCKET NO. 50-312  
 DATE 12/31/89  
 COMPLETED BY Marla Mueller  
 TELEPHONE (916) 452-3211

OPERATING STATUS

1. Unit Name: Rancho Seco Notes:  
 2. Reporting Period: December 1989  
 3. Licensed Thermal Power (Mwt): 2,772  
 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  
 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	<u>744</u>	<u>8,760</u>	<u>128,928</u>
12. Number of Hours Reactor Was Critical	<u>0</u>	<u>2,355.7</u>	<u>62,221.5</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>2,436.4</u>	<u>12,736.6</u>
14. Hours Generator On-Line	<u>0</u>	<u>2,217.6</u>	<u>57,811.1</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>2,437.3</u>	<u>3,647.5</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>4,623,125</u>	<u>141,951,953</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>1,575,699</u>	<u>46,223,924</u>
18. Net Electrical Energy Generated (MWH)	<u>-4,177</u>	<u>1,414,376</u>	<u>42,458,259</u>
19. Unit Service Factor	<u>0%</u>	<u>25.3%</u>	<u>44.8%</u>
20. Unit Availability Factor	<u>0%</u>	<u>53.1%</u>	<u>47.7%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0%</u>	<u>18.5%</u>	<u>37.7%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0%</u>	<u>17.6%</u>	<u>35.9%</u>
23. Unit Forced Outage Rate	<u>0%</u>	<u>40.7%</u>	<u>42.7%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): *			
25. If Shut Down At End Of Report Period, Estimated Date of Startup: *			
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>

\* Plant shut down June 7 following negative outcome of public vote regarding continued operation of Rancho Seco by SMUD.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1989

DOCKET NO. 50-312  
 UNIT NAME Rancho Seco  
 DATE 12-31-89  
 COMPLETED BY M. Mueller  
 TELEPHONE (916) 452-3211

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
20	06-07-89	S	744	F	1	N/A	N/A	N/A	Plant shut down June 7 following negative outcome of public vote regarding continued operation of Rancho Seco by SMUD.

<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 1 - Same Source