

JULY 1988

SUMMARY OF PLANT OPERATIONS

Rancho Seco operated at the 45% power level until 1516 hours on July 8, 1988, when power escalation from 45% to 65% commenced at the rate of approximately 3%/hour. Escalation to 65% power was completed at 2008 hours. On July 29 power was increased to the 75% level. That level was reached at 1430 hours. Rancho Seco operated at the 75% power level until 2048 hours on July 31 when power was increased to 80%.

PERSONNEL CHANGES REQUIRING REPORT

Four management changes in July 1988 require reporting pursuant to Technical Specification Figure 6.2-2. Mr. Michael J. Bua is acting Manager, Radiation Protection; Mr. Paul J. Caudill is acting Manager, Management Systems; Mr. Max E. Herrell is acting Manager, Nuclear Training; and Mr. Paul E. Turner is acting Manager, Plant Performance.

Mr. Bua, acting Manager, Radiation Protection has worked for the District since March 1977 in positions such as Operator, Senior Chemistry/Radiation Protection Technician, and Training Superintendent. He completed Naval Nuclear Power School and spent 6 years in the U. S. Navy where he qualified as Leading Engineering Laboratory Technician, Engine Room Supervisor, and "M" Division Section Leader. Mr. Bua was certified in 1980 as a Radiation Protection Technologist with the NRRPT and as a Radio-Analytical Chemist with the Nuclear Science Facility. Mr. Bua received a bachelors degree in Chemistry from Sacramento State.

Mr. Caudill, acting Manager, Management Systems has over 11 years experience with development and implementation of nuclear power plant project management programs and control systems. He previously served the District on a contract basis as a Restart Scheduling Supervisor. He also worked for a major architect/engineer as a Project Cost/Schedule Supervisor on a number of operating plant and baseload construction assignments. Mr. Caudill has a B.S. in Public Management from the University of Arizona.

Mr. Herrell, acting Manager, Nuclear Training has been involved in nuclear power for over 17 years, 12 years in Training and 5 years as Maintenance Supervisor and Shift Supervisor. He was a U. S. Navy Prototype Instructor. He wrote the Maintenance Training Program at Salem, was licensed as a Senior Reactor Operator, and participated in the initial criticality and power ascension testing at Salem 2 as a Shift Supervisor and at Wolf Creek as a Senior Training Instructor. At Rancho Seco, as the Nuclear Training Superintendent, Mr. Herrell has been responsible for all aspects of licensed operator initial and requalification training, non-licensed operator training, technical staff and manager training, and simulator training. He is a member of the Region V Interutility Operating Committee, the Professional Reactor Operator Society, the American Nuclear Society, and the Society for Computer Simulation International.

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Mr. Turner, acting Manager, Plant Performance has served as the Manager, Nuclear Training for two utilities (Kansas Gas and Electric Company and Sacramento Municipal Utility District). He also worked for INPO, evaluating more than 30 nuclear sites in the areas of management, systems design and operation, procedural adequacies, and plant personnel performance. Prior to working for INPO, Mr. Turner worked for the Tennessee Valley Authority, the Singer Company, and served in the United States Navy Nuclear Program. Mr. Turner has 20 years of nuclear experience, 13 of which are with nuclear utilities. He has a degree in Nuclear Engineering from Georgia Institute of Technology.

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 July 1988.

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

1. ECN R-3207, Revision 0, modified grating on platform at elevation 20 feet to provide for adequate clearance for thermal movement of valves HV-20518, MSS-020 and MSS-022.
2. ECN R-2392, Revision 0, upgraded the Perimeter Security System by installing additional microwave intrusion equipment and new security equipment on the Personnel Access Portal (PAP) Building, and aligning and retesting the entire system.
3. ECN R-3227, Revision 0, provided additional supports for the G100B TDI Diesel Turbocharger to reduce the vibration level.
4. ECN R-3270, Revision 0, provided additional supports for the G100A TDI Diesel Turbocharger to reduce the vibration level.
5. ECN A-3894, Revision 0, installed telephone cable from the Administration Building mainframe to a new trailer park telephone distribution box.
6. ECN R-3101, Revision 0, replaced Gould Transmitter LT-20506D with a Rosemount Model 1153HD4. The existing Gould transmitter would not maintain its zero reference.
7. ECN R-3173, Revision 1, erected a new exhaust stack for Auxiliary Boiler E-360. An exhaust stack was previously shared by E-360 and E-365, thus making maintenance and repairs difficult.
8. ECN A-5727, Revision 0, provided a permanent priming water supply to the Auxiliary Lube Oil Centrifuge (Y-823).

REFUELING INFORMATION REQUEST

1. Name of Facility Rancho Seco Unit 1
2. Scheduled date for next refueling shutdown: August 1, 1989
3. Scheduled date for restart following refueling: November 28, 1989
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)
5. Scheduled date(s) for submitting proposed licensing action: March 15, 1989
6. Important licensing considerations associated with refueling: N/A
7. Number of fuel assemblies:
 - a) In the core: 177
 - b) In the Spent Fuel Pool: 316
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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-312
 UNIT Rancho Seco Unit 1
 DATE 7/31/88
 COMPLETED BY S. L. Crunk
 TELEPHONE (916) 452-3211

MONTH July 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>307</u>
2	<u>359</u>
3	<u>352</u>
4	<u>281</u>
5	<u>368</u>
6	<u>371</u>
7	<u>369</u>
8	<u>417</u>
9	<u>555</u>
10	<u>558</u>
11	<u>568</u>
12	<u>560</u>
13	<u>538</u>
14	<u>525</u>
15	<u>559</u>
16	<u>566</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>588</u>
18	<u>558</u>
19	<u>560</u>
20	<u>553</u>
21	<u>580</u>
22	<u>590</u>
23	<u>587</u>
24	<u>590</u>
25	<u>571</u>
26	<u>588</u>
27	<u>620</u>
28	<u>589</u>
29	<u>613</u>
30	<u>636</u>
31	<u>644</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 7/31/88
 COMPLETED BY S. L. Crunk
 TELEPHONE (916) 452-3211

OPERATING STATUS

1. Unit Name: Rancho Seco Unit 1 Notes: _____
 2. Reporting Period: July 1988
 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>5,111</u>	<u>116,495</u>
12. Number of Hours Reactor Was Critical	<u>744</u>	<u>2,717.3</u>	<u>57,039.3</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>10,300.2</u>
14. Hours Generator On-Line	<u>744</u>	<u>2,465.9</u>	<u>52,829.7</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1,210.2</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,285,029</u>	<u>3,092,474</u>	<u>130,954,162</u>
17. Gross Electrical Energy Generated (MWH)	<u>421,612</u>	<u>981,919</u>	<u>425,051,116</u>
18. Net Electrical Energy Generated (MWH)	<u>388,877</u>	<u>825,875</u>	<u>39,057,901</u>
19. Unit Service Factor	<u>100%</u>	<u>48.3%</u>	<u>45.4%</u>
20. Unit Availability Factor	<u>100%</u>	<u>48.3%</u>	<u>46.4%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>59.9%</u>	<u>18.5%</u>	<u>38.4%</u>
22. Unit Capacity Factor (Using DER Net)	<u>56.9%</u>	<u>17.6%</u>	<u>36.5%</u>
23. Unit Forced Outage Rate	<u>0%</u>	<u>46.5%</u>	<u>43.6%</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
As part of the power ascension program, the P02 outage began on August 6, 1988.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A

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

REPORT MONTH July 1988DOCKET NO. 50-312UNIT NAME Rancho SecoDATE 7/31/88COMPLETED BY Steve L. CrunkTELEPHONE (916) 452-3211

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
NO OUTAGES OR SIGNIFICANT POWER REDUCTION (GREATER THAN 20% REDUCTION IN AVERAGE DAILY POWER LEVEL FOR THE PRECEDING 24 HOURS) THIS MONTH.									

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)

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Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

⁵
Exhibit I - Same Source

(9/77)



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 88-881

AUG 15 1988

Director of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Mail Station PL-137
Washington, DC 20555

Docket No. 50-312
Rancho Seco Nuclear Generating Station
License No. DPR-54
OPERATING PLANT STATUS REPORT

Dear Sir:

Enclosed is the July 1988 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,

for Steve L. Crunk
Manager, Nuclear Licensing

Encl (5)

cc: J. B. Martin, NRC, Walnut Creek
INPO
R. Twilley, Jr.

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