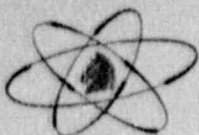


**FGE**



Portland General Electric Company  
Trojan Nuclear Plant  
71760 Columbia River Hwy  
Rainier, Oregon 97048  
(503) 556-3713

October 6, 1989  
CPY-240-89

US Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Gentlemen:

Monthly Operating Report

In accordance with the Trojan Nuclear Plant Technical Specifications reporting requirements, the Monthly Operating Data Report is submitted for September, 1989.

Sincerely,

C. P. Yundt  
General Manager

CPY:sp  
Attachment

c: Mr. John B. Martin  
Regional Administrator, Region V  
US Nuclear Regulatory Commission

Mr. David Stewart-Smith  
Department of Energy  
State of Oregon

Resident Inspector

MOR Distribution

TROJAN NUCLEAR PLANT

Trojan Operating Report

September 1989

OPERATIONS

The plant began the month in Mode 1.

At the beginning of the month it was noted the frequency of draining and cooling the Pressurizer Relief Tank (PRT) had increased with time. The source of leakage into the PRT was from one leaking Pressurizer Safety Valve and a leaking relief valve on the let-down line. Due to increasing leakage, the decision was made to shut the plant down for repair.

On September 8<sup>th</sup>, while clamicide treatment of the "B" train Service Water system was in progress, a setpoint change was initiated on the "A" train Residual Heat Removal (RHR) system rendering it inoperable. These two unrelated activities resulted in both trains of RHR being inoperable for approximately three hours. Upon recognition of the problem one train was restored to service. Long term corrective actions include appropriate disciplinary actions for responsible personnel and extensive revamping of the work control system.

On September 9<sup>th</sup>, anomalous rod movement was observed during an I&C surveillance test of Power Range Nuclear Instrumentation. Troubleshooting revealed the problem to be dirty contacts in a nuclear instrumentation bypass switch. The contacts were cleaned, retested, and the system restored to service. The switch was replaced during the scheduled outage conducted to repair the leaking safety valves noted.

On September 16<sup>th</sup>, the plant entered the scheduled outage to repair the leaking Pressurizer Safety Valve and the leaking let-down relief valve.

On September 16<sup>th</sup>, the Pressurizer Safety Valves lift setpoints were tested. This was done in response to new industry information that indicated the old method of testing without loop seals could introduce an excessive error. One valve (PSV-8010B) did not lift at the required pressure. The valve was reset and tested satisfactorily.

On September 18<sup>th</sup>, inspection of the screens around the Containment Recirculation Sump disclosed some openings (gaps) that were slightly outside of the acceptance criteria. The gaps were evaluated and repairs conducted.

On September 22<sup>nd</sup>, during routine maintenance to the reactor protection racks, it was realized that additional cleaning and maintenance was required. This comprehensive cleaning and maintenance extended the outage duration and revealed several minor problems that have been subsequently resolved.

During Containment closeout activities it became obvious that additional work was required to correct the physical condition of Containment. Extensive inspections and corrective actions were taken to identify and rectify material deficiencies and cleanliness problems. This expanded job scope also contributed to the extended outage.

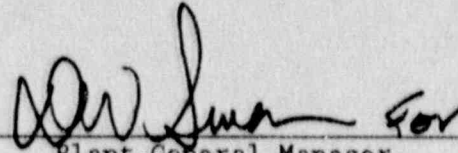
The plant ended the month in Mode 5, finishing the outage work and making preparations for the Plant restart.

MAINTENANCE

Significant maintenance completed during this period includes:

- Repaired the leaking Pressurizer Safety and let-down relief valves.
- Tested and reset Pressurizer Safety Valves in accordance with new industry standards.
- Replaced a nuclear instrumentation bypass switch.
- Repaired small gaps in the Containment Recirculation Sump Screen.

APPROVED

  
Plant General Manager

**OPERATING DATA REPORT**

DOCKET NO. 50-344  
 DATE October, 1989  
 COMPLETED BY F. J. Ulmer  
 TELEPHONE 503-556-3713  
 Ext. 4495

**OPERATING STATUS**

1. Unit Name: Trojan Nuclear Plant
2. Reporting Period: September, 1989
3. Licensed Thermal Power (MWT): 3411
4. Nameplate Rating (Gross MWe): 1216
5. Design Electrical Rating (Net MWe): 1130
6. Maximum Dependable Capacity (Gross MWe): 1153
7. Maximum Dependable Capacity (Net MWe): 1095
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:  
N/A

Notes

9. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_
10. Reasons For Restrictions, If Any: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	6551	114671
12. Number Of Hours Reactor Was Critical	360.6	3281.5	70560.5
13. Reactor Reserve Shutdown Hours	0	0	3387
14. Hours Generator On-Line	360.4	3156.6	69691.5
15. Unit Reserve Shutdown Hours	0	0	3249
16. Gross Thermal Energy Generated (MWH)	1210074	10434943	222035943
17. Gross Electrical Energy Generated (MWH)	404570	3513142	73042594
18. Net Electrical Energy Generated (MWH)	380243	3306797	69174867
19. Unit Service Factor	50.1	48.2	60.8
20. Unit Availability Factor	50.1	48.2	63.6
21. Unit Capacity Factor (Using MDC Net)	48.2	46.1	56.4
22. Unit Capacity Factor (Using DER Net)	46.7	44.7	53.4
23. Unit Forced Outage Rate	0	4.0	13.4
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: October 3, 1989

	Forecast	Achieved
INITIAL CRITICALITY	N/A	N/A
INITIAL ELECTRICITY	N/A	N/A
COMMERCIAL OPERATION	N/A	N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-344

UNIT: Troj

DATE: October, 1989

COMPLETED BY: F. J. Ulmer

TELEPHONE: 503 556-3713  
ext4495

MONTH September, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1073</u>	17	<u>-36</u>
2	<u>1091</u>	18	<u>-20</u>
3	<u>1079</u>	19	<u>-13</u>
4	<u>1083</u>	20	<u>-11</u>
5	<u>1084</u>	21	<u>-11</u>
6	<u>1080</u>	22	<u>-13</u>
7	<u>1085</u>	23	<u>-13</u>
8	<u>1075</u>	24	<u>-15</u>
9	<u>1079</u>	25	<u>-14</u>
10	<u>1081</u>	26	<u>-14</u>
11	<u>1078</u>	27	<u>-14</u>
12	<u>1076</u>	28	<u>-13</u>
13	<u>1073</u>	29	<u>-13</u>
14	<u>1073</u>	30	<u>-12</u>
15	<u>980</u>	31	<u>N/A</u>
16	<u>-32</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.

**UNIT SHUTDOWNS AND POWER REDUCTIONS**

REPORT MONTH September, 1989

DOCKET NO. 50-344  
 UNIT NAME Trojan  
 DATE October, 1989  
 COMPLETED BY E. J. Ulmer  
 TELEPHONE 503-556-3713  
 ext 4495

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	License Event Report #	System Code <sup>4</sup>	Component Codes	Cause & Corrective Action to Prevent Recurrence
04-89	890916	S	359.6	B	1	N/A	CA	VALVEX	Reactor was taken off-line to perform scheduled maintenance on leaking pressurizer safety valve (SV-8010C).

<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