

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 01/08/86
 COMPLETED BY M. P. Richardson
 TELEPHONE 602-932-5300
 Ext. 6593

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: December 1985
3. Licensed Thermal Power (Mwt): 3800
4. Nameplate Rating (Gross MWe): 1304
5. Design Electrical Rating (Net MWe): 1270
6. Maximum Dependable Capacity (Gross MWe): To be determined
7. Maximum Dependable Capacity (Net MWe): To be determined
8. If Changes Occur Above 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 -----

	Month	Year	Cumulative
11. Report Period Hrs	744	4898	8760
12. Hours Reactor Critical	583.8	2427	2427
13. Rx Reserve Shtdwn Hrs	0	0	0
14. Hrs Generator On-Line	465.3	2019.8	2019.8
15. Unit Reserve Shtdwn Hrs	0	0	0
16. Gross Therm Ener (MWH)	1,460,729	4,394,189	4,394,189
17. Gross Elec Ener (MWH)	478,600	1,336,700	1,336,700
18. Net Elec Ener (MWH)	430,781	1,127,650	1,127,650
19. Unit Service Factor	N/A	N/A	N/A
20. Unit Avail Factor	N/A	N/A	N/A
21. Unit Cap Factor (MDC Net)	N/A	N/A	N/A
22. Unit Cap Factor (DER Net)	N/A	N/A	N/A
23. Unit Forced Outage Rate	N/A	N/A	N/A

24. Shutdowns Sched Over Next 6 Months (Type, Date, Duration): -----
Surveillance Test Outage = 3/86, 49 days

25. If Shutdown At End Of Report Period, Estimated Date of Startup: -----

26. Units In Test Status (Prior To Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	5/85	5/25/85
INITIAL ELECTRICITY	6/85	6/10/85
COMMERCIAL OPERATION	11/85	N/A

IE24
 11

REFUELING INFORMATION

DOCKET NO. 50-528

UNIT PVNGS-1

DATE 01/08/86

COMPLETED BY M.P. Richardson

TELEPHONE 602-932-5300

Ext. 6593

1. Scheduled date for next refueling shutdown.

03/01/87

2. Scheduled date for restart following refueling.

04/19/87

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Not Yet Determined
What will these be?

Not Yet Determined

4. Scheduled date for submitting proposed licensing action and supporting information.

Not Yet Determined

5. Important Licensing considerations associated with refueling, e.g. new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.

Not Yet Determined

6. The number of fuel assemblies.

a) In the core. 241

b) In the spent fuel storage pool. 0

7. Licensed spent fuel storage capacity. 1329

Intended change in spent fuel storage capacity. None

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

2002 (w/annual reloads and full core discharge capability).

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
 UNIT PVNGS-1
 DATE 01/08/86
 COMPLETED BY M. P. Richardson
 TELEPHONE 602-932-5300
Ext. 6593

MONTH: December 1985

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1 0
 2 596
 3 780
 4 604
 5 0
 6 64
 7 473
 8 954
 9 900
 10 1,136
 11 463
 12 0
 13 0
 14 0
 15 0
 16 368

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17 0
 18 0
 19 319
 20 41
 21 124
 22 743
 23 1,166
 24 1,174
 25 1,174
 26 1,174
 27 1,133
 28 1,114
 29 1,118
 30 1,148
 31 1,170

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-528
UNIT PVNGS-1
DATE 01/08/86
COMPLETED BY M. P. Richardson
TELEPHONE 602-932-5300
Ext. 6593

- 12/01 0048 - Increased Rx power to 5%, entered Mode 1.
- 12/01 2309 - Sync Main Generator on line.
- 12/02 0108 - Increased Main Generator load to 164 MWe, Reactor power at 18.5%.
- 12/02 1250 - Reactor power at 80%, Main Generator at 1027 MWe.
- 12/04 1430 - Initiated Load Reject Test, satisfactory.
- 12/04 1700 - Reactor power at 25%, Main Generator at 250 MWe.
- 12/04 1627 - Sync Main Generator on line at 60 MWe.
- 12/04 1906 - Reactor trip at 56% power. Trip due to a high penalty factor being inserted by the CEACs due to dropping Subgroup 12 (part lengthn CEAs). All equipment functioned as designed.
- 12/05 0143 - Plant in Mode 3.
- 12/05 2107 - Reactor is critical, entered Mode 2.
- 12/05 2247 - Entered Mode 1.
- 12/06 0433 - Sync Main Generator.
- 12/06 0458 - Main Generator tripped due to high vibration.
- 12/06 0653 - Sync Main Generator.
- 12/06 1158 - Main Turbine trip due to a generator exciter trip.
- 12/07 0521 - Sync Main Generator.
- 12/07 1543 - Reactor power at ~80% power.
- 12/07 2220 - Commenced power ascension to 90% power.

- 12/10 0025 - Reactor power at 90% power.
- 12/10 1408 - Commenced power ascension to 100% power.
- 12/10 1743 - Reactor power at 100% power.
- 12/11 0754 - Borated to reduce reactor power to ~70% due to suspected condenser tube leak.
- 12/11 1105 - Entered Mode 1.
- 12/11 1108 - Main Generator off line.
- 12/11 1630 - Reactor power at ~1% power.
- 12/12 1545 - Plant in Mode 3.
- 12/12 1559 - Reactor is in a shutdown condition due to ammonia concentration chemistry in the primary.
- 12/15 0340 - Reactor critical, entered Mode 2.
- 12/15 2224 - Entered Mode 1, reactor at @ 5% power.
- 12/16 0310 - Main generator on line.
- 12/16 1533 - Reactor at 52.2% power, Main generator 552 MWe.
- 12/16 2315 - Main turbine trip.
- 12/16 2332 - Reactor trip due to Lo S/G level on all 4 channels, entered Mode 3.
- 12/18 2152 - Reactor is critical, entered Mode 2.
- 12/19 0156 - Entered Mode 1.
- 12/19 0407 - Main generator on line.
- 12/20 0243 - Reactor trip from 40% power on high pressurizer pressure after a reactor power cutback signal initiated a turbine runback and SBCS quick open block. Plant response was normal no ESFAS actuations.
- 12/21 0630 - Reactor critical, entered Mode 2.
- 12/21 1028 - Entered Mode 1.
- 12/21 1415 - Main generator on line.
- 12/22 2055 - Began 100 hour run at 95% power or greater.

NRC Monthly Operating Report
Page 3

- 12/23 0845 - Reactor power at 100%.
- 12/25 0800 - Plant in Mode 1, reactor power at 99.6%, main generator at 1312 MWe.
- 12/27 0153 - Completed 100 hour run at > 95% power.
- 12/30 0415 - Reactor power at 100%.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 01/10/86
 COMPLETED BY H.P. Richardson
 TELEPHONE 932-5300
 Ext. 6593

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
20	12/04/85	S	0	B	N/A				Load reject test.
21	12/04/85	F	26	A	3	1-85-088-00	AA	25	High penalty factor being inserted by the CEACs due to dropping subgroup 12 (part length). Replace phase synchronizer card. High vibration. Reset.
22	12/06/85	F	0	A	N/A				Generator exciter trip. Vented normal chilled water to collector housing.
23	12/06/85	F	0	A	N/A				Reduction in power due to suspected condenser tube leak. Plugged tubes.
24	12/11/85	F	0	A	5				Reactor shutdown due to ammonia concentration chemistry in primary.
25	12/12/85	F	60	A	1				BOP ESFAS sequencer failed, entered Tech. Spec. LCO 3.0.3
26	12/16/85	F	0	H	N/A	1-85-083-00			Low steam generator level on all 4 channels. Revised setpoints to FWCS.
27	12/16/85	F	46	A	3	1-85-090-00	JK	LIC	High pressurizer pressure after turbine runback. Revised setpoints.
28	12/20/85	F	28	A	3	1-85-080-00	JI	PMC	

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)

³
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Continuation from Previous Month
 5-Reduction of 20% or Greater in the

⁴
 Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

⁵
 Exhibit H -



Arizona Nuclear Power Project

P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

January 15, 1986
ANPP-34656-EEVB/LJM/98.07

Mr. Ronald M. Scroggins, Director
Office of Resource Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket No. STN 50-528 (License NPF-41)
December Monthly Operating Report
File: 86-024-404

Dear Mr. Scroggins:

Attached please find the December, 1985, Monthly Operating Report prepared and submitted pursuant to Specification 6.9.1.6 of Appendix A (Technical Specifications) to the Palo Verde Nuclear Generating Station, Unit 1 Operating License. By copy of this letter, we are also forwarding a copy of the Monthly Operating Report to the Regional Administrator of the Region V office.

If you have any questions, please contact me.

Very truly yours,

E. E. Van Brunt, Jr.
Executive Vice President
Project Director

EEVB/LJM/rw
Attachments

cc: J. B. Martin (all w/a)
R. P. Zimmerman
E. A. Licitra
A. C. Gehr
INPO Records Center

IE24
11