

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 8/13/96
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: July 1996
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1249
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1227
8. If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7)
 Since Last Report, Give Reasons: N/A
9. Power Level to Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	Unit 1 Generating Statistics	This Month	Yr. to Date	Cumulative
11.	Hours in Reporting Period	744	5,112	92,112
12.	Hours Reactor was Critical	744.0	4,656.1	62,619.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	4,575.7	61,478.8
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,821,260	17,285,778	222,821,982
17.	Gross Electrical Energy Generated (MWH)	956,800	5,920,600	77,031,100
18.	Net Electrical Energy Generated (MWH)	904,252	5,579,513	72,337,234
19.	Unit Service Factor (%)	100.0%	89.5%	66.7%
20.	Unit Availability Factor (%)	100.0%	89.5%	66.7%
21.	Unit Capacity Factor (Using MDC Net)	99.1%	89.0%	64.3%
22.	Unit Capacity Factor (Using DER Net)	97.3%	87.4%	61.8%
23.	Unit Forced Outage Rate (%)	0.0%	3.6%	11.7%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): 6th Refueling outage is scheduled for 9/21/96 through 11/04/96 (45 days).
25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

Forecast
05/85
06/85
12/85

Achieved
05/25/85
06/10/85
01/28/86

9608200095 960813
 PDR ADDCK 05000528
 R PDR

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
UNIT NAME PVNGS-1
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TELEPHONE (602) 393-5277

MONTH: July 1996

DAY AVERAGE DAILY POWER LEVEL

1	1223
2	1215
3	1220
4	1154
5	1218
6	1218
7	1220
8	1218
9	1221
10	1217
11	1217
12	1220
13	1224
14	1219
15	1222
16	1222

DAY AVERAGE DAILY POWER LEVEL

17	1226
18	1227
19	1224
20	1224
21	1223
22	1221
23	1223
24	1220
25	1216
26	1221
27	1221
28	1222
29	1222
30	1220
31	1221

REFUELING INFORMATION

DOCKET NO. 50-528
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1. Scheduled date for next refueling shutdown.

The 6th refueling outage is scheduled to begin on 09/21/96.

2. Scheduled date for restart following refueling.

11/04/96.

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

No

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

5/20/96

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, and new operating procedures.

None.

6. The number of fuel assemblies.

a) In the core. 241

b) In the spent fuel storage pool. 456

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.

2005 (18 Month reloads and full core discharge capability).



SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
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COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 393-5277</u>

July 1996

07/01	0000	Unit began the month in Mode 1 at 100% power..
07/04	0206	Commenced RX power decrease to 85% for MT CV#4 card replacement.
07/04	0335	RX power stabilized at 88%.
07/04	1500	RX power at 100%.
07/31	2359	Unit ended the month in Mode 1 at 100% power.

SHUTDOWNS AND POWER REDUCTIONS
July 1996

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 8/13/96
COMPLETED BY J. D. Fulton
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No.	Date	Type ¹	Outage Duration Hours	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵	Cause and Corrective Action to Prevent Occurrence
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No reactor shutdowns or significant power reductions occurred during the month of July 1996.

¹F-Forced
S-Scheduled

²Reason:
A-Equipment Failure(Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License
Examination
F-Administrative
G-Operational Error
H-Other (Explain)

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from Previous Month
5-Reduction of 20% or Greater in the
Past 24 Hours
9-Other-(Explain)

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

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 8/13/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: July 1996
3. Licensed Thermal Power (MWt): 3876
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1249
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1227
8. If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7)
Since Last Report, Give Reasons: N/A
9. Power Level to Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

Unit 2 Generating Statistics		This Month	Yr. to Date	Cumulative
11.	Hours In Reporting Period	744	5,112	86,496
12.	Hours Reactor was Critical	744.0	3,926.6	62,061.7
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	3,876.7	60,898.9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,882,058	14,491,209	222,518,822
17.	Gross Electrical Energy Generated (MWH)	976,900	4,988,400	77,317,870
18.	Net Electrical Energy Generated (MWH)	927,410	4,723,619	72,488,370
19.	Unit Service Factor (%)	100.0%	75.8%	70.4%
20.	Unit Availability Factor (%)	100.0%	75.8%	70.4%
21.	Unit Capacity Factor (Using MDC Net)	101.6%	75.3%	68.6%
22.	Unit Capacity Factor (Using DER Net)	99.8%	74.0%	66.0%
23.	Unit Forced Outage Rate (%)	0.0%	1.3%	5.1%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): N/A

25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

	Forecast	Achieved
INITIAL CRITICALITY	<u>03/86</u>	<u>04/18/86</u>
INITIAL ELECTRICITY	<u>06/86</u>	<u>05/20/86</u>
COMMERCIAL OPERATION	<u>12/86</u>	<u>09/19/86</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 8/13/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

MONTH: July 1996

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1250	17	1255
2	1250	18	1256
3	1249	19	1256
4	1249	20	1254
5	1249	21	1254
6	1248	22	1254
7	1250	23	1254
8	1249	24	1252
9	1250	25	1243
10	1250	26	1252
11	1250	27	1248
12	1252	28	1251
13	1248	29	1251
14	1245	30	1250
15	1249	31	1251
16	1251		

REFUELING INFORMATION

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 8/13/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

1. **Scheduled date for next refueling shutdown.**

The 7th refueling outage is scheduled for 09/20/97.

2. **Scheduled date for restart following refueling.**

11/09/97.

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

No.

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

N/A

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, and new operating procedures.**

N/A

6. **The number of fuel assemblies.**

a) In the core. 241

b) In the spent fuel storage pool. 544

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.**

2005 (18 Month reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

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UNIT NAME PVNGS-2
DATE 8/13/96
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TELEPHONE (602) 393-5277

July 1996

07/01 0000 Unit began the month in Mode 1 at 100% RX power.
07/31 2359 Unit ended the month in Mode 1 at 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS
July 1996

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 8/13/96
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No.	Date	Type ¹	Outage Duration Hours	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵	Cause and Corrective Action to Prevent Occurrence
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No reactor shutdowns or significant power reductions occurred during the month of July 1996.

¹F-Forced
S-Scheduled

²Reason:
A-Equipment Failure(Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License
Examination
F-Administrative
G-Operational Error
H-Other (Explain)

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from Previous Month
5-Reduction of 20% or Greater in the
Past 24 Hours
9-Other-(Explain)

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NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-530
 UNIT NAME PVNGS-3
 DATE 8/13/96
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: July 1996
3. Licensed Thermal Power (MWt): 3876
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1253
6. Maximum Dependable Capacity (Gross MWe): 1302
7. Maximum Dependable Capacity (Net MWe): 1230
8. If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7)
 Since Last Report, Give Reasons: N/A
9. Power Level to Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	Unit 3 Generating Statistics	This Month	Yr. to Date	Cumulative
11.	Hours In Reporting Period	744	5,112	75,072
12.	Hours Reactor was Critical	744.0	5,112.0	57,805.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	5,054.6	57,031.6
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,882,800	19,250,978	209,616,036
17.	Gross Electrical Energy Generated (MWH)	979,600	6,607,100	73,080,200
18.	Net Electrical Energy Generated (MWH)	925,394	6,246,251	68,755,793
19.	Unit Service Factor (%)	100.0%	98.9%	76.0%
20.	Unit Availability Factor (%)	100.0%	98.9%	76.0%
21.	Unit Capacity Factor (Using MDC Net)	101.1%	99.3%	75.0%
22.	Unit Capacity Factor (Using DER Net)	99.3%	97.5%	72.1%
23.	Unit Forced Outage Rate (%)	0.0%	1.1%	5.0%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): N/A

25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION	Forecast <u>07/87</u> <u>07/87</u> <u>09/87</u>	Achieved <u>10/25/87</u> <u>12/28/87</u> <u>01/08/88</u>
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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 8/13/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

MONTH: July 1996

DAY AVERAGE DAILY POWER LEVEL

1 1249

2 1249

3 1251

4 1251

5 1251

6 1243

7 1242

8 1247

9 1250

10 1251

11 1250

12 1251

13 1246

14 1241

15 1251

16 1252

DAY AVERAGE DAILY POWER LEVEL

17 1255

18 1257

19 1256

20 1248

21 1247

22 1252

23 1252

24 1244

25 1247

26 1247

27 1247

28 1245

29 1250

30 1250

31 1250

REFUELING INFORMATION

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>8/13/96</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 393-5277</u>

1. Scheduled date for next refueling shutdown.

The 6th refueling outage is scheduled for 2/22/97.

2. Scheduled date for restart following refueling.

4/13/97.

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

None.

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

None.

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, and new operating procedures.

None.

6. The number of fuel assemblies.

a) In the core. 241

b) In the spent fuel storage pool. 456

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.

2005 (18 Month reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

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TELEPHONE	<u>(602) 393-5277</u>

July 1996

07/01	0000	Unit began the month in Mode 1 at 100% RX power.
07/31	2359	Unit ended the month in Mode 1 at 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS
July 1996

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D-Regulatory Restriction
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