

CATEGORY 1

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STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Publi 05000529

Δ STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi 05000530

AUTH, NAME AUTHOR AFFILIATION

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RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for May 1997 for Palo Verde Nuclear
Generating Station Units 1, 2 & 3.W/970610 ltr.

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Standardized plant. 05000529

Standardized plant. 05000530

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Palo Verde Nuclear
Generating Station

Gregg R. Overbeck
Vice President
Nuclear Production

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035-00476-GRO/JDF
June 10, 1997

U. S. Nuclear Regulatory Commission
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Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
Monthly Operating Reports for MAY 1997**

Enclosed are the Monthly Operating Reports for May 1997, prepared and submitted pursuant to Specification 6.9.1.6 of Appendix A (Technical Specifications) to the PVNGS Units 1, 2, and 3 Operating Licenses.

By copy of this letter, Arizona Public Service Company is also forwarding the Monthly Operating Reports to the Regional Administrator, NRC Region IV.

If you have any questions, please contact Judy Fulton at (602) 250-3549.

Sincerely,

GRO/JDF/clj

Enclosures: MAY 1997 Monthly Operating Reports

cc: E. W. Merschoff (all w/enclosures)
K. E. Perkins
INPO Records Center
Utility Data Institute

11/1
Judy



9706190442 970531
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R PDR

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 06/10/97
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 250-3549

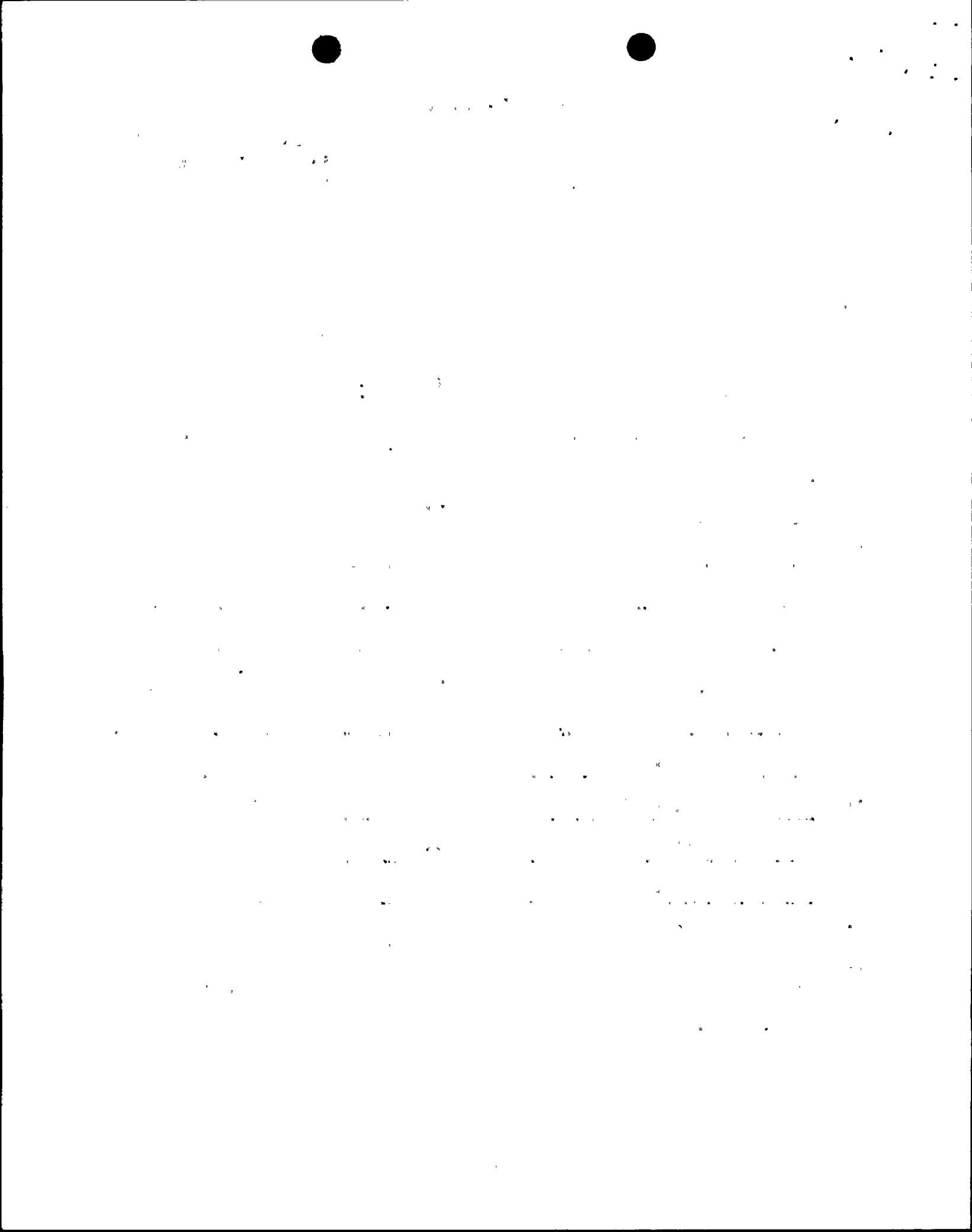
OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: May 1997
3. Licensed Thermal Power (MWt): 3876
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1265
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1243
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	3,624	99,408
12.	Hours Reactor was Critical	655.1	3,535.1	68,860.3
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	642.6	3,522.6	67,675.1
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,441,952	13,568,884	246,182,611
17.	Gross Electrical Energy Generated (MWH)	825,800	4,616,800	84,970,500
18.	Net Electrical Energy Generated (MWH)	774,722	4,367,795	79,833,357
19.	Unit Service Factor (%)	86.4%	97.2%	68.1%
20.	Unit Availability Factor (%)	86.4%	97.2%	68.1%
21.	Unit Capacity Factor (Using MDC Net)	83.8%	97.0%	65.8%
22.	Unit Capacity Factor (Using DER Net)	82.3%	95.3%	63.2%
23.	Unit Forced Outage Rate (%)	13.6%	2.8%	10.9%

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>05/85</u>	<u>05/25/85</u>
INITIAL ELECTRICITY	<u>06/85</u>	<u>06/10/85</u>
COMMERCIAL OPERATION	<u>12/85</u>	<u>01/28/86</u>



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>06/10/97</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 250-3549</u>

MONTH: May 1997

DAY	AVERAGE DAILY POWER LEVEL
-----	---------------------------

1	<u>1250</u>
2	<u>1252</u>
3	<u>1252</u>
4	<u>1250</u>
5	<u>1248</u>
6	<u>1249</u>
7	<u>1249</u>
8	<u>1249</u>
9	<u>1248</u>
10	<u>1245</u>
11	<u>1245</u>
12	<u>1247</u>
13	<u>1246</u>
14	<u>1245</u>
15	<u>1244</u>
16	<u>1246</u>

DAY	AVERAGE DAILY POWER LEVEL
-----	---------------------------

17	<u>1245</u>
18	<u>1243</u>
19	<u>1245</u>
20	<u>1247</u>
21	<u>1247</u>
22	<u>1248</u>
23	<u>1245</u>
24	<u>1247</u>
25	<u>1250</u>
26	<u>1251</u>
27	<u>30</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>181</u>

REFUELING INFORMATION

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>06/10/97</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 250-3549</u>

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

The 7th refueling outage is scheduled for 03/21/98.

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

05/10/98.

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.**

None.

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

- a) In the core. 241
b) In the spent fuel storage pool. 548

7. **Designed 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>
DATE	<u>06/10/97</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 250-3549</u>

May 1997

05/01	0000	Unit began the month in Mode 1 at 100% RX power.
05/27	0034	RX trip due to load shed on the NAN-S01 bus. Entered Mode 3.
05/30	1607	Commenced RX startup.
05/30	1700	Entered Mode 2.
05/30	1727	RX critical.
05/31	0000	Commenced RX power increase to 10%
05/31	0559	Synchronized to the grid.
05/31	1534	RX power at > 20%.
05/31	2359	Unit ended the month in Mode 1 at 46% RX power.

SHUTDOWNS AND POWER REDUCTIONS
May 1997

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 06/10/97
COMPLETED BY J. D. Fulton
TELEPHONE (602)250-3549

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
97-02	05/27	1	101.4	A	3	N/A	N/A	N/A	RX tripped due to a load shed on the NAN-S01 bus.

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	06/10/97
COMPLETED BY	J. D. Fulton
TELEPHONE	(602) 250-3549

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: May 1997
3. Licensed Thermal Power (MWt): 3876
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1265
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1243
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	3,624	93,792
12.	Hours Reactor was Critical	744.0	3,624.0	69,357.7
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	3,624.0	68,194.9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,883,228	14,043,600	250,786,081
17.	Gross Electrical Energy Generated (MWH)	983,700	4,818,900	87,001,770
18.	Net Electrical Energy Generated (MWH)	935,712	4,583,136	81,690,028
19.	Unit Service Factor (%)	100.0%	100.0%	72.7%
20.	Unit Availability Factor (%)	100.0%	100.0%	72.7%
21.	Unit Capacity Factor (Using MDC Net)	101.2%	101.7%	71.3%
22.	Unit Capacity Factor (Using DER Net)	99.4%	100.0%	68.6%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	4.6%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): 7th Refueling outage
is scheduled for 9/6/97 through 10/26/97 (50 days).

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>



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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>06/10/97</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 250-3549</u>

MONTH: May 1997

DAY AVERAGE DAILY POWER LEVEL

1	<u>1263</u>
2	<u>1266</u>
3	<u>1263</u>
4	<u>1263</u>
5	<u>1263</u>
6	<u>1262</u>
7	<u>1260</u>
8	<u>1262</u>
9	<u>1263</u>
10	<u>1259</u>
11	<u>1259</u>
12	<u>1261</u>
13	<u>1261</u>
14	<u>1260</u>
15	<u>1262</u>
16	<u>1262</u>

DAY AVERAGE DAILY POWER LEVEL

17	<u>1259</u>
18	<u>1259</u>
19	<u>1260</u>
20	<u>1262</u>
21	<u>1261</u>
22	<u>1262</u>
23	<u>1262</u>
24	<u>1260</u>
25	<u>1263</u>
26	<u>1264</u>
27	<u>1265</u>
28	<u>1265</u>
29	<u>1262</u>
30	<u>1259</u>
31	<u>1259</u>

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REFUELING INFORMATION

DOCKET NO.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>06/10/97</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 250-3549</u>

1. Scheduled date for next refueling shutdown.

The 7th refueling outage is scheduled for 09/06/97.

2. Scheduled date for restart following refueling.

10/26/97.

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.

None.

6. The number of fuel assemblies.

a) In the core. 241

b) In the spent fuel storage pool. 544

7. Designed 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>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>06/10/97</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 250-3549</u>

May 1997

05/01	0000	Unit began the month in Mode 1 at 100% RX power.
05/31	2359	Unit ended the month in Mode 1 at 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS
May 1997

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 06/10/97
COMPLETED BY J. D. Fulton
TELEPHONE (602)250-3549

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
-----	------	-------------------	-----------------------------	---------------------	--	---------	-----------------------------	--------------------------------	--

No reactor shutdowns or significant power reductions occurred during the month of May 1997.

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

T D B O S N E H I J

K P

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NRC MONTHLY OPERATING REPORT

DOCKET NO.	50-530
UNIT NAME	PVNGS-3
DATE	06/10/97
COMPLETED BY	J. D. Fulton
TELEPHONE	(602) 250-3549

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: May 1997
3. Licensed Thermal Power (MWt): 3876
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1269
6. Maximum Dependable Capacity (Gross MWe): 1302
7. Maximum Dependable Capacity (Net MWe): 1247
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	3,624	82,368
12.	Hours Reactor was Critical	743.2	2,757.5	64,214.3
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	743.2	2,723.9	63,401.4
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,880,102	9,992,948	233,728,908
17.	Gross Electrical Energy Generated (MWH)	984,700	3,418,800	81,303,900
18.	Net Electrical Energy Generated (MWH)	931,137	3,221,565	76,520,710
19.	Unit Service Factor (%)	99.9%	75.2%	77.0%
20.	Unit Availability Factor (%)	99.9%	75.2%	77.0%
21.	Unit Capacity Factor (Using MDC Net)	100.4%	71.3%	76.1%
22.	Unit Capacity Factor (Using DER Net)	98.6%	70.1%	73.2%
23.	Unit Forced Outage Rate (%)	0.1%	0.0%	4.5%

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>07/87</u>	<u>10/25/87</u>
INITIAL ELECTRICITY	<u>07/87</u>	<u>12/28/87</u>
COMMERCIAL OPERATION	<u>09/87</u>	<u>01/08/88</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>06/10/97</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 250-3549</u>

MONTH: May 1997

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	<u>1258</u>	17	<u>1254</u>
2	<u>1265</u>	18	<u>1252</u>
3	<u>1261</u>	19	<u>1254</u>
4	<u>1257</u>	20	<u>1256</u>
5	<u>1258</u>	21	<u>1256</u>
6	<u>1258</u>	22	<u>1257</u>
7	<u>1258</u>	23	<u>1255</u>
8	<u>1259</u>	24	<u>1254</u>
9	<u>1259</u>	25	<u>1256</u>
10	<u>1256</u>	26	<u>1258</u>
11	<u>1255</u>	27	<u>1260</u>
12	<u>1257</u>	28	<u>1258</u>
13	<u>1258</u>	29	<u>1256</u>
14	<u>1254</u>	30	<u>1253</u>
15	<u>1257</u>	31	<u>1213</u>
16	<u>1258</u>		

use
of

REFUELING INFORMATION

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>06/10/97</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 250-3549</u>

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

The 7th refueling outage is scheduled for 9/19/98.

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

11/8/98.

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.**

None.

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

a) In the core. 241

b) In the spent fuel storage pool. 556

7. **Designed 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).



THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

RESEARCH REPORT

NO. 1000

1

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>06/10/97</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 250-3549</u>

May 1997

05/01	0000	Unit began the month in Mode 1 at 100% RX power.
05/31	2312	RX tripped during troubleshooting on the plant protection system. Entered Mode 3.
05/31	2359	Unit ended the month in Mode 3.

SHUTDOWNS AND POWER REDUCTIONS
May 1997

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 06/10/97
COMPLETED BY J. D. Fulton
TELEPHONE (602)250-3549

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
97-03	5/31	1	.8	H	3	N/A	N/A	N/A	RX tripped during troubleshooting on the plant protection system. A terminal lug was found improperly crimped and a jumper missing from construction manufacturing process.

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

