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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for June 1992 for Palo Verde Nuclear
 Power Station, Units 1, 2 & 3. W/920714 ltr.

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Arizona Public Service Company
PALO VERDE NUCLEAR GENERATING STATION
P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

JAMES M. LEVINE
VICE PRESIDENT
NUCLEAR PRODUCTION

254-02107-JML/KAC
July 14, 1992

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 June 1992
File: 92-024-404; 92-056-026

Enclosed are the Monthly Operating Reports for June 1992, 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 V.

If you have any questions, please contact Kent A. Chavet at (602) 340-4718.

Sincerely,

V. R. R. for

JML/KAC/kac
Enclosures

cc: J. B. Martin (all w/enclosures)
R. C. Sorensen
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NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 07/09/92
 COMPLETED BY K.A. Chavet
 TELEPHONE (602) 340-4718

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: June 1992
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1270
6. Maximum Dependable Capacity (Gross MWe): 1303
7. Maximum Dependable Capacity (Net MWe): 1221
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	720	4,368	56,304
12.	Hours Reactor was Critical	720.0	1,814.4	30,873.5
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	720.0	1,730.6	30,052.7
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,726,926	5,796,445	109,660,701
17.	Gross Electrical Energy Generated (MWH)	947,300	1,994,900	38,043,600
18.	Net Electrical Energy Generated (MWH)	894,941	1,847,271	35,672,063
19.	Unit Service Factor (%)	100.0%	39.6%	53.4%
20.	Unit Availability Factor (%)	100.0%	39.6%	53.4%
21.	Unit Capacity Factor (Using MDC Net)	101.8%	34.6%	51.9%
22.	Unit Capacity Factor (Using DER Net)	97.9%	33.3%	49.9%
23.	Unit Forced Outage Rate (%)	0.0%	13.6%	19.9%

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>11/85</u>	<u>01/28/86</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 07/09/92
 COMPLETED BY K.A. Chavet
 TELEPHONE (602) 340-4718

MONTH: June 1992

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1193</u>
2	<u>1240</u>
3	<u>1242</u>
4	<u>1243</u>
5	<u>1245</u>
6	<u>1246</u>
7	<u>1248</u>
8	<u>1247</u>
9	<u>1243</u>
10	<u>1222</u>
11	<u>1229</u>
12	<u>1225</u>
13	<u>1226</u>
14	<u>1226</u>
15	<u>1242</u>
16	<u>1255</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1254</u>
18	<u>1255</u>
19	<u>1254</u>
20	<u>1251</u>
21	<u>1251</u>
22	<u>1250</u>
23	<u>1246</u>
24	<u>1245</u>
25	<u>1247</u>
26	<u>1250</u>
27	<u>1250</u>
28	<u>1250</u>
29	<u>1212</u>
30	<u>1235</u>

REFUELING INFORMATION

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 07/09/92
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

1. Scheduled date for next refueling shutdown.
09/15/93, 4th refueling
2. Scheduled date for restart following refueling.
11/24/93
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

The need for a Technical Specification change or other license amendment has not yet been determined.
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. 267
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.

2004 (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>07/09/92</u>
COMPLETED BY	<u>K.A. Chavet</u>
TELEPHONE	<u>(602) 340-4718</u>

June 1992

06/01	0000	Unit began the month in Mode 1; ascending to 100% from 82% Reactor Power.
06/01	0848	RX power at 100%.
06/30	2400	Ended the month in Mode 1; 100% Reactor Power.

SHUTDOWNS AND POWER REDUCTIONS
June 1992

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 07/09/92
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

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 Recurrence
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No reactor shutdowns or significant power reductions occurred during the month.

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 07/09/92
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: June 1992
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1270
6. Maximum Dependable Capacity (Gross MWe): 1303
7. Maximum Dependable Capacity (Net MWe): 1221
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	720	4,368	50,688
12.	Hours Reactor was Critical	720.0	4,101.3	35,447.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0
14.	Hours Generator was On-Line	720.0	3,975.5	34,689.8
15.	Unit Reserve Shutdown Hours	0.0	0.0	0
16.	Gross Thermal Energy Generated (MWH)	2,735,197	14,632,867	127,579,085
17.	Gross Electrical Energy Generated (MWH)	948,900	5,067,600	44,473,670
18.	Net Electrical Energy Generated (MWH)	894,112	4,750,852	41,641,067
19.	Unit Service Factor (%)	100.0%	91.0%	68.4%
20.	Unit Availability Factor (%)	100.0%	91.0%	68.4%
21.	Unit Capacity Factor (Using MDC Net)	101.7%	89.1%	67.3%
22.	Unit Capacity Factor (Using DER Net)	97.8%	85.6%	64.7%
23.	Unit Forced Outage Rate (%)	0.0%	4.8%	7.1%

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>11/86</u>	<u>09/19/86</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529
 UNIT NAME PVNGS-2
 DATE 07/09/92
 COMPLETED BY K.A. Chavet
 TELEPHONE (602) 340-4718

MONTH: June 1992

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1244</u>
2	<u>1242</u>
3	<u>1241</u>
4	<u>1243</u>
5	<u>1244</u>
6	<u>1247</u>
7	<u>1247</u>
8	<u>1247</u>
9	<u>1245</u>
10	<u>1244</u>
11	<u>1245</u>
12	<u>1248</u>
13	<u>1248</u>
14	<u>1248</u>
15	<u>1247</u>
16	<u>1246</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1246</u>
18	<u>1247</u>
19	<u>1247</u>
20	<u>1245</u>
21	<u>1245</u>
22	<u>1242</u>
23	<u>1240</u>
24	<u>1240</u>
25	<u>1242</u>
26	<u>1245</u>
27	<u>1243</u>
28	<u>1242</u>
29	<u>1238</u>
30	<u>1243</u>

REFUELING INFORMATION

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 07/09/92
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

1. Scheduled date for next refueling shutdown.
03/15/93, 4th refueling
2. Scheduled date for restart following refueling.
05/24/93
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Yes. A change to the moderator temperature coefficient curve in the Technical Specification is anticipated as a result of the next refueling.
4. Scheduled date for submitting proposed licensing action and supporting information.
12/21/92
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.

Minor modifications to the fuel pellet design (dimensional and density changes) will be incorporated into the Unit 2, Cycle 5 reload.
6. The number of fuel assemblies.

a) In the core. 241
b) In the spent fuel storage pool. 288
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.

2004 (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>07/09/92</u>
COMPLETED BY	<u>K.A. Chavet</u>
TELEPHONE	<u>(602) 340-4718</u>

June 1992

06/01	0000	Unit began the month in Mode 1; 100% RX power.
06/30	2400	Ended the month in Mode 1; 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS
June 1992

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 07/09/92
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

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 Recurrence
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No reactor shutdowns or significant power reductions occurred during the month.

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. 50-530
UNIT NAME PVNGS-3
DATE 07/09/92
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: June 1992
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1270
6. Maximum Dependable Capacity (Gross MWe): 1303
7. Maximum Dependable Capacity (Net MWe): 1221
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	720	4,368	39,264
12.	Hours Reactor Was Critical	720.0	4,154.2	28,151.9
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	720.0	4,128.9	27,728.3
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,640,365	15,309,897	101,821,306
17.	Gross Electrical Energy Generated (MWH)	922,700	5,364,300	35,683,000
18.	Net Electrical Energy Generated (MWH)	870,888	5,053,607	33,571,532
19.	Unit Service Factor (%)	100.0%	94.5%	70.6%
20.	Unit Availability Factor (%)	100.0%	94.5%	70.6%
21.	Unit Capacity Factor (Using MDC Net)	99.1%	94.8%	70.0%
22.	Unit Capacity Factor (Using DER Net)	95.2%	91.1%	67.3%
23.	Unit Forced Outage Rate (%)	0.0%	5.5%	8.7%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): Refueling outage, September 19, 1992, 80 days.
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>11/28/87</u>
COMMERCIAL OPERATION	<u>09/87</u>	<u>01/08/88</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 07/09/92
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

MONTH: June 1992

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1257</u>
2	<u>1254</u>
3	<u>859</u>
4	<u>839</u>
5	<u>847</u>
6	<u>1034</u>
7	<u>1256</u>
8	<u>1257</u>
9	<u>1256</u>
10	<u>1256</u>
11	<u>1258</u>
12	<u>1260</u>
13	<u>1260</u>
14	<u>1260</u>
15	<u>1261</u>
16	<u>1262</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1260</u>
18	<u>1259</u>
19	<u>1261</u>
20	<u>1259</u>
21	<u>1259</u>
22	<u>1257</u>
23	<u>1252</u>
24	<u>1253</u>
25	<u>1255</u>
26	<u>1259</u>
27	<u>1258</u>
28	<u>1257</u>
29	<u>1253</u>
30	<u>1258</u>

REFUELING INFORMATION

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 07/09/92
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

1. Scheduled date for next refueling shutdown.
09/19/92, 3rd refueling
2. Scheduled date for restart following refueling.
11/28/92
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

There are no Technical Specification changes associated with this reload.
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. 192
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>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>07/09/92</u>
COMPLETED BY	<u>K.A. Chavet</u>
TELEPHONE	<u>(602) 340-4718</u>

June 1992

06/01	0000	Unit began the month in Mode 1; 100% RX power.
06/03	0306	RX power cutback to 70% after the 'B' feedwater turbine tripped on high vibration.
06/06	1708	RX power at 100%.
06/30	2400	Ended the month in Mode 1; 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS
June 1992

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 07/09/92
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

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 Recurrence
92-05	06/03/92	F	N/A	A	5	N/A	N/A	N/A	RX power cutback to 70% after the 'B' feedwater turbine tripped on high vibration.

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

