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 STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Publi 05000529
 STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi 05000530

AUTH.NAME AUTHOR AFFILIATION
 PORTER,K.F. Arizona Public Service Co. (formerly Arizona Nuclear Power
 HAYNES,J.G. Arizona Public Service Co. (formerly Arizona Nuclear Power
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Jul 1989 for Palo Verde Nuclear
 Generating Station,Units 1,2 & 3.W/890814.

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NOTES:

Standardized plant.
 Standardized plant.

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Arizona Public Service Company

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

ID# 254-00349-JGH/KFP
August 14, 1989

Docket Nos. STN 50-528/529/530

Document Control Desk
U. S. Nuclear Regulatory Commission
Mail Station PL-137
Washington, D.C. 20555

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2 and 3
Monthly Operating Reports for July 1989
File: 89-024-404/89-056-026

Attached are the Monthly Operating Reports for July 1989 prepared and submitted pursuant to Specification 6.9.1.6 of Appendix A (Technical Specifications) to the Palo Verde Nuclear Generating Station, Units 1, 2 and 3 Operating Licenses. By copy of this letter, we are also forwarding the Monthly Operating Reports to the Regional Administrator of the Region V Office.

If you have any questions, please contact Mr. K. F. Porter, at (602) 371-4187.

Very truly yours,



J. G. Haynes
Vice President
Nuclear Production

JGH/KFP/dlm
Attachments

cc: M. J. Davis (all w/attachments)
J. B. Martin
T. J. Polich
J. A. Amenta
INPO Records Center

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Monthly Operating Report
Page 2

bcc: E. E. Van Brunt, Jr.	(7040)	(all w/attachments)
D. B. Karner	(9012)	
A. C. Gehr	(4141)	
R. J. Adney	(6915)	
J. E. Allen	(7106)	
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D. R. Heinicke	(6452)	
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W. C. Marsh	(6123)	
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NRC MONTHLY OPERATING REPORT

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>08/09/89</u>
COMPLETED BY	<u>K. F. Porter</u>
TELEPHONE	<u>(602) 371-4187</u>

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: July 1989
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 (Items Number 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

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	<u>744</u>	<u>5,088.0</u>	<u>30,744.0</u>
12. Number of Hours Reactor Was Critical	<u>0</u>	<u>1,522.0</u>	<u>17,262.1</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>0</u>	<u>1,522.0</u>	<u>16,826.9</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>5,565,298.0</u>	<u>60,931,221.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>1,933,700.0</u>	<u>21,163,100.0</u>
18. Net Electrical Energy Generated (MWH)	<u>0</u>	<u>1,796,575.0</u>	<u>19,793,190.0</u>
19. Unit Service Factor	<u>0%</u>	<u>29.9%</u>	<u>54.7%</u>
20. Unit Availability Factor	<u>0%</u>	<u>29.9%</u>	<u>54.7%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0%</u>	<u>28.9%</u>	<u>52.7%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0%</u>	<u>27.8%</u>	<u>50.7%</u>
23. Unit Forced Outage Rate	<u>0%</u>	<u>34.6%</u>	<u>28.1%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>N/A</u>			

25. If Shutdown At End of Report Period, Estimated Date of Startup:
September 20, 1989

	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 08/09/89
COMPLETED BY K. F. Porter
TELEPHONE (602) 371-4187

MONTH: JULY 1989

DAY AVERAGE DAILY POWER LEVEL

1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY AVERAGE DAILY POWER LEVEL

17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</u>

REFUELING INFORMATION

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 08/09/89
COMPLETED BY K. F. Porter
TELEPHONE (602) 371-4187

1. Scheduled date for next refueling shutdown.
03/01/91, 3rd refueling.
2. Scheduled date for restart following refueling.
06/03/91
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
To be determined.
4. Scheduled date for submitting proposed licensing action and supporting information.
To be 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.

The fuel vendor for the next reload will be Combustion Engineering.
6. The number of fuel assemblies
 - a) In the core. 241
 - b) In the spent fuel storage pool. 188
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. 50-528
UNIT NAME PVNGS-1
DATE 08/09/89
COMPLETED BY K. F. Porter
TELEPHONE (602) 371-4187

JULY 1989

07/01 0000 Unit begins month in Mode 6, 2nd Refueling Outage.
07/31 2400 Unit ends month in Mode 6.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 08/09/89
 COMPLETED BY K. F. Porter
 TELEPHONE (602) 371-4187

No.	Date	Type ¹	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
89/03	04/08/89	S	744	C	4	N/A	N/A	N/A	2nd refueling outage.

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
 H-Other (Explain)

3

Method:
 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)

4

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

5

Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>08/09/89</u>
COMPLETED BY	<u>K. F. Porter</u>
TELEPHONE	<u>(602) 371-4187</u>

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: July 1989
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 (Items Number 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

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	<u>744.0</u>	<u>5,088.0</u>	<u>25,128.0</u>
12. Number of Hours Reactor Was Critical	<u>549.7</u>	<u>2,069.0</u>	<u>17,094.1</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>478.1</u>	<u>1,949.9</u>	<u>16,690.6</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,657,660</u>	<u>7,165,994</u>	<u>61,092,771</u>
17. Gross Electrical Energy Generated (MWH)	<u>567,000</u>	<u>2,480,500.0</u>	<u>21,348,970.0</u>
18. Net Electrical Energy Generated (MWH)	<u>515,763</u>	<u>2,277,851.0</u>	<u>19,961,904.0</u>
19. Unit Service Factor	<u>64.3%</u>	<u>38.3%</u>	<u>66.4%</u>
20. Unit Availability Factor	<u>64.3%</u>	<u>38.3%</u>	<u>66.4%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>56.8%</u>	<u>36.7%</u>	<u>65.1%</u>
22. Unit Capacity Factor (Using DER Net)	<u>54.6%</u>	<u>35.3%</u>	<u>62.6%</u>
23. Unit Forced Outage Rate	<u>35.7%</u>	<u>22.7%</u>	<u>7.9%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Refueling Outage - 01/90 - 90 Days</u>			

25. If Shutdown At End of Report Period, Estimated Date of Startup:
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 _____
 COMPLETED BY K. F. Porter
 TELEPHONE (602) 371-4187

MONTH: JULY 1989

DAY	AVERAGE DAILY POWER LEVEL
1	<u>563</u>
2	<u>1060</u>
3	<u>1158</u>
4	<u>49</u>
5	<u>0</u>
6	<u>0</u>
7	<u>797</u>
8	<u>1238</u>
9	<u>1234</u>
10	<u>1238</u>
11	<u>1240</u>
12	<u>1127</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>223</u>
22	<u>1207</u>
23	<u>1218</u>
24	<u>1226</u>
25	<u>1226</u>
26	<u>1138</u>
27	<u>1139</u>
28	<u>1237</u>
29	<u>1240</u>
30	<u>1239</u>
31	<u>1238</u>

REFUELING INFORMATION

DOCKET NO.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>08/09/89</u>
COMPLETED BY	<u>K. F. Porter</u>
TELEPHONE	<u>(602) 371-4187</u>

- Scheduled date for next refueling shutdown.
01/13/90, 2nd refueling.
- Scheduled date for restart following refueling.
04/20/90
- Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
To be determined.
- Scheduled date for submitting proposed licensing action and supporting information.
09/89
- 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.
To be determined.
- The number of fuel assemblies
 - In the core. 241
 - In the spent fuel storage pool. 108
- Licensed spent fuel storage capacity. 1329
Intended change in spent fuel storage capacity. None
- 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>08/09/89</u>
COMPLETED BY	<u>K. F. Porter</u>
TELEPHONE	<u>(602) 371-4187</u>

JULY 1989

07/01	0000	Unit began month operating in Mode 1, 28% RX Power.
07/03	1721	Unit reached 100% RX Power.
07/04	0033	Unit began power reduction for outage to repair one inch line break on the Feedwater Pump "B" Bypass.
07/04	0324	Turbine taken off-line.
07/04	0331	Unit entered Mode 2.
07/06	1651	Unit entered Mode 1.
07/06	1847	Generator synchronized to grid.
07/07	2109	Unit reached 100% RX Power.
07/12	2212	RX/Turbine trip due to loss of electrical bus NAN-S02. Unit stabilized in Mode 3.
07/21	0032	Unit entered Mode 2.
07/21	0404	Unit entered Mode 1.
07/21	0844	Generator synchronized to grid.
07/22	0345	Unit reached 100% RX Power.
07/26	1756	Commenced power reduction to 65% for troubleshooting feedwater pump turbine "B" oscillations.
07/27	0713	Unit back at 100% RX Power.
07/31	2400	Unit ended month in Mode 1, 100% RX Power.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 08/09/89
COMPLETED BY K. F. Porter
TELEPHONE (602) 371-4187

No.	Date	Type ¹	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
89/03	07/04/89	F	63.4	A	5	N/A			Turbine was taken off-line for repair of a condensate line.
89/04	07/12/89	F	202.5	A	3	N/Av			Loss of power bus NAN-S02 resulted in loss of power to two RCPs.
89/05	07/26/89	S	0.0	B	5	N/A			Power reduced to 65% for troubleshooting of FWPT "B" oscillations.

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
H-Other (Explain)

3

Method:
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)

4

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

5

Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO.	50-530
UNIT NAME	PVNGS-3
DATE	08/09/89
COMPLETED BY	K. F. Porter
TELEPHONE	(602) 371-4187

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: July 1989
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 (Items Number 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

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	<u>744.0</u>	<u>5,088.0</u>	<u>13,704.0</u>
12. Number of Hours Reactor Was Critical	<u>0</u>	<u>1,106.1</u>	<u>9,307.8</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>0</u>	<u>1,095.0</u>	<u>9,273.0</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>4,090,086.0</u>	<u>34,402,824.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>1,420,500.0</u>	<u>12,067,700.0</u>
18. Net Electrical Energy Generated (MWH)	<u>0</u>	<u>1,327,990.0</u>	<u>11,363,465.0</u>
19. Unit Service Factor	<u>0%</u>	<u>21.5%</u>	<u>67.7%</u>
20. Unit Availability Factor	<u>0%</u>	<u>21.5%</u>	<u>67.7%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0%</u>	<u>21.4%</u>	<u>67.9%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0%</u>	<u>20.6%</u>	<u>65.3%</u>
23. Unit Forced Outage Rate	<u>0%</u>	<u>31.1%</u>	<u>9.1%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>N/A</u>			

25. If Shutdown At End of Report Period, Estimated Date of Startup:
September 01, 1989

	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 08/09/89
 COMPLETED BY K. F. Porter
 TELEPHONE (602) 371-4187

MONTH: JULY 1989

DAY	AVERAGE DAILY POWER LEVEL
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</u>

REFUELING INFORMATION

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 08/09/89
COMPLETED BY K. F. Porter
TELEPHONE (602) 371-4187

1. Scheduled date for next refueling shutdown.
11/17/90, 2nd refueling.
2. Scheduled date for restart following refueling.
02/19/91
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
To be determined.
4. Scheduled date for submitting proposed licensing action and supporting information.
To be 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.
The fuel vendor for the next reload will be Combustion Engineering.
6. The number of fuel assemblies
 - a) In the core. 241
 - b) In the spent fuel storage pool. 104
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>08/09/89</u>
COMPLETED BY	<u>K. F. Porter</u>
TELEPHONE	<u>(602) 371-4187</u>

JULY 1989

07/01	0000	Unit began month in Mode 6, 1st Refueling Outage.
07/31	2400	Unit ended month in Mode 6.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 08/09/89
COMPLETED BY K. F. Porter
TELEPHONE (602) 371-4187

No.	Date	Type ¹	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
89/03	03/08/89	S	744	C	4	N/A	N/A	N/A	Continuation of unit refueling outage.

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
H-Other (Explain)

3
Method:
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)

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

5
Exhibit H-Same Source

