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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  
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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Nov 1989 for Palo Verde Nuclear.  
 Generating Station. W/891215

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### NOTES:

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 Standardized plant.

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### NOTES:

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Arizona Public Service Company

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254-00650-JML/KFP

December 15, 1989

Docket Nos. STN 50-528/529/530

Document Control Desk  
U. S. Nuclear Regulatory Commission  
Mail Station P1-37  
Washington, D.C. 20555

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

Attached are the Monthly Operating Reports for November 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.

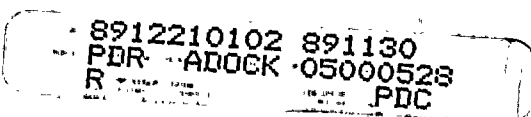
If you have any questions, please contact Mr. K. F. Porter, at (602) 340-4187.

Very truly yours,

  
J. M. Levine  
Vice President  
Nuclear Production

JML/KFP  
Attachments

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





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# NRC MONTHLY OPERATING REPORT

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>12/12/89</u>
COMPLETED BY	<u>K.F. PORTER</u>
TELEPHONE	<u>(602) 340-4187</u>

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: November 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>720</u>	<u>8,016</u>	<u>33,672</u>
12. Number of Hours Reactor Was Critical	<u>0.0</u>	<u>1,522.0</u>	<u>17,262.1</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>0.0</u>	<u>1,522.0</u>	<u>16,826.9</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>0</u>	<u>5,565,298</u>	<u>60,931,221</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>1,933,700</u>	<u>21,163,100</u>
18. Net Electrical Energy Generated (MWH)	<u>0</u>	<u>1,796,575</u>	<u>19,793,190</u>
19. Unit Service Factor	<u>0.0%</u>	<u>19.0%</u>	<u>50.0%</u>
20. Unit Availability Factor	<u>0.0%</u>	<u>19.0%</u>	<u>50.0%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.0%</u>	<u>18.4%</u>	<u>48.1%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.0%</u>	<u>17.6%</u>	<u>46.3%</u>
23. Unit Forced Outage Rate	<u>0.0%</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 Start-up:  
March 13, 1990

	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 12/12/89  
 COMPLETED BY K.F. PORTER  
 TELEPHONE (602) 340-4187

MONTH: NOVEMBER 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>
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27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>





REFUELING INFORMATION

DOCKET NO. 50-528  
UNIT NAME PVNGS-1  
DATE 12/12/89  
COMPLETED BY K.F. PORTER  
TELEPHONE (602) 340-4187

1. Scheduled date for next refueling shutdown.  
08/11/91, 3rd refueling.
2. Scheduled date for restart following refueling.  
11/14/91
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.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>12/12/89</u>
COMPLETED BY	<u>K.F. PORTER</u>
TELEPHONE	<u>(602) 340-4187</u>

NOVEMBER 1989

11/01	00:00	Unit began month defueled, 2nd Refueling Outage.
11/13	15:44	Unit began loading fuel, entered Mode 6.
11/30	24:00	Unit ended month in Mode 6.



# SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-528  
UNIT NAME PVNGS-1  
DATE 12/12/89  
COMPLETED BY K.F. PORTER  
TELEPHONE (602) 340-4187

No.	Date	Type <sup>1</sup>	Duration Hours	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action to Prevent Recurrence
89/03	04/08/89	S	720	C	4	N/A	N/A	N/A	Continuation of 2nd refuel outage.

<sup>1</sup>F-Forced  
S-Scheduled

<sup>2</sup>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)

<sup>3</sup>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)

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

<sup>5</sup>Exhibit H-Same Source



# NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-529  
UNIT NAME PVNGS-2  
DATE 12/12/89  
COMPLETED BY K.F. PORTER  
TELEPHONE (602) 340-4187

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: November 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>720</u>	<u>8,016</u>	<u>28,056</u>
12. Number of Hours Reactor Was Critical	<u>6.6</u>	<u>3,519.0</u>	<u>18,544.1</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>0.0</u>	<u>3,315.6</u>	<u>18,056.3</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>0</u>	<u>12,154,843</u>	<u>66,081,620</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>4,211,000</u>	<u>23,079,470</u>
18. Net Electrical Energy Generated (MWH)	<u>0</u>	<u>3,860,450</u>	<u>21,544,503</u>
19. Unit Service Factor	<u>0.0%</u>	<u>41.4%</u>	<u>64.4%</u>
20. Unit Availability Factor	<u>0.0%</u>	<u>41.4%</u>	<u>64.4%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.0%</u>	<u>39.4%</u>	<u>62.9%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.0%</u>	<u>37.9%</u>	<u>60.5%</u>
23. Unit Forced Outage Rate	<u>N/A*</u>	<u>28.0%</u>	<u>10.6%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): <u>Refueling Outage - 02/90 - 95 Days</u>			

25. If Shutdown At End of Report Period, Estimated Date of Start-up:  
12/03/89 (actual)

	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>

\*The normal F.O.R. is not meaningful since the unit was in a forced outage for part of the month and in a maintenance outage for part of the month. A more meaningful calculation for this case would be forced outage hours divided by period hours (39.5%).





# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529  
 UNIT NAME PVNGS-2  
 DATE 12/12/89  
 COMPLETED BY K.F. PORTER  
 TELEPHONE (602) 340-4187

MONTH: NOVEMBER 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>

REFUELING INFORMATION

DOCKET NO. 50-529  
UNIT NAME PVNGS-2  
DATE 12/12/89  
COMPLETED BY K.F. PORTER  
TELEPHONE (602) 340-4187

1. Scheduled date for next refueling shutdown.  
02/10/90, 2nd refueling.
2. Scheduled date for restart following refueling.  
05/16/90
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?  
Fig. 3.1-1A, Tables 3.1-2, 3.1-3, 3.1-5, Fig. 3.2-2, Fig. 3.2-2a  
Fig. 3.1-3, Fig. 3.1-4, Tech Spec 3.2.7
4. Scheduled date for submitting proposed licensing action and supporting information.  
Issued 11/06/89
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.  
To be determined
6. The number of fuel assemblies.
  - a) In the core. 241
  - b) In the spent fuel storage pool. 108
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>12/12/89</u>
COMPLETED BY	<u>K.F. PORTER</u>
TELEPHONE	<u>(602) 340-4187</u>

NOVEMBER 1989

11/01	00:00	Unit began month in Mode 3.
11/04	01:26	Unit entered Mode 4.
11/04	23:13	Unit entered Mode 5.
11/21	13:18	Unit entered Mode 4.
11/22	05:08	Unit entered Mode 5.
11/23	17:38	Unit entered Mode 4.
11/24	05:08	Unit entered Mode 3.
11/30	17:25	Unit entered Mode 2.
11/30	24:00	Unit ended the month in Mode 2.



# SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-529  
UNIT NAME PVNGS-2  
DATE 12/12/89  
COMPLETED BY K.F. PORTER  
TELEPHONE (602) 340-4187

No.	Date	Type <sup>1</sup>	Duration Hours	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action to Prevent Recurrence
89/11	10/31/89	F	73.4	A	4	2-89-010	IG,JC	HS,CON	Continuation from previous month.
89/12	11/04/89	S	435.7	B	4	1-89-018	VA	ISV	Maintenance of various Henry Pratt valves.
89/13	11/22/89	F	210.9	A	4	N/A	N/A	N/A	Various Aux. Feed System problems.

<sup>1</sup>F-Forced  
S-Scheduled

<sup>2</sup>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)

<sup>3</sup>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)

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

<sup>5</sup>Exhibit H-Same Source



# NRC MONTHLY OPERATING REPORT

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>12/12/89</u>
COMPLETED BY	<u>K.F. PORTER</u>
TELEPHONE	<u>(602) 340-4187</u>

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: November 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>720</u>	<u>8,016</u>	<u>16,632</u>
12. Number of Hours Reactor Was Critical	<u>0.0</u>	<u>1,106.1</u>	<u>9,307.8</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>0.0</u>	<u>1,095.0</u>	<u>9,273.0</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>0</u>	<u>4,090,086</u>	<u>34,402,824</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>1,420,500</u>	<u>12,067,700</u>
18. Net Electrical Energy Generated (MWH)	<u>0</u>	<u>1,327,990</u>	<u>11,363,465</u>
19. Unit Service Factor	<u>0.0%</u>	<u>13.7%</u>	<u>55.8%</u>
20. Unit Availability Factor	<u>0.0%</u>	<u>13.7%</u>	<u>55.8%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.0%</u>	<u>13.6%</u>	<u>56.0%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.0%</u>	<u>13.0%</u>	<u>53.8%</u>
23. Unit Forced Outage Rate	<u>0.0%</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 Start-up:  
December 25, 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>



1954

1955

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530  
 UNIT NAME PVNGS-3  
 DATE 12/12/89  
 COMPLETED BY K.F. PORTER  
 TELEPHONE (602) 340-4187

MONTH: NOVEMBER 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>
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## 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>
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REFUELING INFORMATION

DOCKET NO. 50-530  
UNIT NAME PVNGS-3  
DATE 12/12/89  
COMPLETED BY K.F. PORTER  
TELEPHONE (602) 340-4187

1. Scheduled date for next refueling shutdown.

03/07/91, 2nd refueling.

2. Scheduled date for restart following refueling.

06/10/91

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.

To be determined.

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>12/12/89</u>
COMPLETED BY	<u>K.F. PORTER</u>
TELEPHONE	<u>(602) 340-4187</u>

NOVEMBER 1989

11/01	00:00	Unit began the month in Mode 5, 1st Refueling Outage.
11/28	05:07	Unit entered Mode 4.
11/29	14:53	Unit entered Mode 3.
11/30	24:00	Unit ended the month in Mode 3.



# SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-530  
UNIT NAME PVNGS-3  
DATE 12/12/89  
COMPLETED BY K.F. PORTER  
TELEPHONE (602) 340-4187

No.	Date	Type <sup>1</sup>	Duration Hours	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action to Prevent Recurrence
89/03	03/08/89	S	720	C	4	N/A	N/A	N/A	Continuation of unit refuel outage.

<sup>1</sup>F-Forced  
S-Scheduled

<sup>2</sup>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)

<sup>3</sup>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)

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

<sup>5</sup>Exhibit H-Same Source



