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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

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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Jan 1994 for Palo Verde Nuclear
 Generating Station W/940215 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

417-00193-JML/BSE/FHD
February 15, 1994

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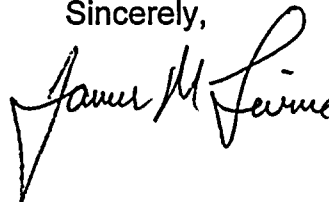
Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
Monthly Operating Reports for January 1994
File: 94-024-404; 94-056-026

Enclosed are the Monthly Operating Reports for January 1994, 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 Brad S. Ecklund at (602) 340-4068.

Sincerely,



JML/BSE/FHD/gez
Enclosures

cc: K. E. Perkins (all w/enclosures)
A. H. Gutterman
NRC Senior Resident Inspector
INPO Records Center
Utility Data Institute

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NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 02/10/94
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: January 1994
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	744	744	70,224
12.	Hours Reactor Was Critical	744.0	744.0	42,701.4
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	744.0	41,743.9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,402,290	2,402,290	151,432,838
17.	Gross Electrical Energy Generated (MWH)	846,500	846,500	52,501,100
18.	Net Electrical Energy Generated (MWH)	793,658	793,658	49,252,019
19.	Unit Service Factor (%)	100.0%	100.0%	59.4%
20.	Unit Availability Factor (%)	100.0%	100.0%	59.4%
21.	Unit Capacity Factor (Using MDC Net)	87.4%	87.4%	57.4%
22.	Unit Capacity Factor (Using DER Net)	84.0%	84.0%	55.2%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	15.5%

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>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 02/10/94
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

MONTH: January 1994

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1074</u>
2	<u>1072</u>
3	<u>1074</u>
4	<u>1073</u>
5	<u>1071</u>
6	<u>1071</u>
7	<u>1074</u>
8	<u>1073</u>
9	<u>1076</u>
10	<u>1075</u>
11	<u>1074</u>
12	<u>1074</u>
13	<u>1073</u>
14	<u>1072</u>
15	<u>1071</u>
16	<u>1073</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1071</u>
18	<u>1072</u>
19	<u>1072</u>
20	<u>1071</u>
21	<u>1070</u>
22	<u>1069</u>
23	<u>1062</u>
24	<u>1070</u>
25	<u>1072</u>
26	<u>1073</u>
27	<u>1074</u>
28	<u>1072</u>
29	<u>1068</u>
30	<u>1056</u>
31	<u>1070</u>

REFUELING INFORMATION

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>02/10/94</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 340-4068</u>

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

The 5th refueling outage is tentatively scheduled for 03/13/95.

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

06/01/95.

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. 368

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. 50-528
UNIT NAME PVNGS-1
DATE 02/10/94
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

January 1994

01/01	0000	Unit began the month in Mode 1, 85% RX power.
01/17	0531	The plant experienced load swings due to grid instability caused by an earthquake in southern California. All plant systems and controls functioned normally during the transient and the plant stabilized quickly.
01/31	2400	Unit ended the month in Mode 1, 85% RX power.

SHUTDOWNS AND POWER REDUCTIONS
January 1994

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 02/10/94
COMPLETED BY B. S. Ecklund
TELEPHONE (602)340-4068

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 January, 1994

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 (NUREG0161)

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 02/10/94
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: January 1994
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	744	744	64,608
12.	Hours Reactor was Critical	168.6	168.6	44,717.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	168.6	168.6	43,848.5
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	534,792	534,792	160,369,037
17.	Gross Electrical Energy Generated (MWH)	186,900	186,900	55,849,870
18.	Net Electrical Energy Generated (MWH)	169,052	169,052	52,289,086
19.	Unit Service Factor (%)	22.7%	22.7%	67.9%
20.	Unit Availability Factor (%)	22.7%	22.7%	67.9%
21.	Unit Capacity Factor (Using MDC Net)	18.6%	18.6%	66.3%
22.	Unit Capacity Factor (Using DER Net)	17.9%	17.9%	63.7%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	6.1%

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: 03/09/94

	Forecast	Achieved
INITIAL CRITICALITY	<u>03/85</u>	<u>04/18/85</u>
INITIAL ELECTRICITY	<u>06/86</u>	<u>05/20/85</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 02/10/94
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 340-4068

MONTH: January 1994

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1066</u>
2	<u>1072</u>
3	<u>1065</u>
4	<u>1065</u>
5	<u>1066</u>
6	<u>1065</u>
7	<u>943</u>
8	<u>7</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.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>02/10/94</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 340-4068</u>

1. Scheduled date for next refueling shutdown.

The 5th refueling outage is tentatively scheduled for 09/17/94, however, it is more likely to take place in the first quarter of 1995.

2. Scheduled date for restart following refueling..

12/06/94, or 80 days following the new refueling shutdown date.

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

A change may be required to Technical Specification 3.9.6 to raise the overload cutoff limit to accommodate the new fuel assembly modification. Also, Technical Specification Section 6.9.1.10 will be modified to add the new Inlet Flow Distribution methodology.

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

10/13/94.

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.

The fuel assembly will consist of a denser fuel pellet, Erbium burnable absorber and guardian grid. A primary temperature drop of 16° F is currently planned.

6. The number of fuel assemblies.

- a) In the core. 241
b) In the spent fuel storage pool. 384

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. 50-529
UNIT NAME PVNGS-2
DATE 02/10/94
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

January 1994

01/01	0000	Unit began the month in Mode 1, 85% RX power.
01/07	1708	Commenced downpower from 85% for mid-cycle outage.
01/08	0035	Manually tripped RX at 20% power. Entered Mode 3.
01/08	1738	Entered Mode 4.
01/09	0425	Entered Mode 5.
01/31	2400	Unit ended the month in Mode 5, mid-cycle outage in progress.

SHUTDOWNS AND POWER REDUCTIONS
January 1994

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 02/10/94
COMPLETED BY B. S. Ecklund
TELEPHONE (602)340-4068

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
94-01	01/08/94	S	575.4	B	2	N/A	N/A	N/A	Manual RX trip for planned mid-cycle outage for SG tube eddy current inspection.

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 (NUREG0161)

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-530
 UNIT NAME PVNGS-3
 DATE 02/10/94
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 340-4068

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: January 1994
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	744	744	53,184
12.	Hours Reactor was Critical	744.0	744.0	39,759.9
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	744.0	39,168.1
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,408,027	2,408,027	143,079,287
17.	Gross Electrical Energy Generated (MWH)	852,700	852,700	50,074,600
18.	Net Electrical Energy Generated (MWH)	795,912	795,912	47,094,133
19.	Unit Service Factor (%)	100.0%	100.0%	73.6%
20.	Unit Availability Factor (%)	100.0%	100.0%	73.6%
21.	Unit Capacity Factor (Using MDC Net)	87.6%	87.6%	72.5%
22.	Unit Capacity Factor (Using DER Net)	84.2%	84.2%	69.7%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	6.8%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): 4th Refueling outage is scheduled to begin on March 12, 1994. 80 days duration.
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 02/10/94
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 340-4068

MONTH: January 1994

DAY AVERAGE DAILY POWER LEVEL

1	<u>1081</u>
2	<u>1080</u>
3	<u>1080</u>
4	<u>1081</u>
5	<u>1080</u>
6	<u>1079</u>
7	<u>1076</u>
8	<u>1074</u>
9	<u>1073</u>
10	<u>1072</u>
11	<u>1073</u>
12	<u>1074</u>
13	<u>1078</u>
14	<u>1077</u>
15	<u>1077</u>
16	<u>1075</u>

DAY AVERAGE DAILY POWER LEVEL

17	<u>1065</u>
18	<u>1072</u>
19	<u>1072</u>
20	<u>1073</u>
21	<u>1076</u>
22	<u>1074</u>
23	<u>1073</u>
24	<u>1072</u>
25	<u>1073</u>
26	<u>1072</u>
27	<u>1074</u>
28	<u>1074</u>
29	<u>1075</u>
30	<u>1072</u>
31	<u>1074</u>

REFUELING INFORMATION

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>02/10/94</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 340-4068</u>

1. Scheduled date for next refueling shutdown.

03/12/94, 4th refueling.

2. Scheduled date for restart following refueling.

05/31/94.

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

At present, two Tech. Spec. changes are in process. One for increasing the radially averaged weight percent of U235 in fuel rods to 4.30^{W/o}. The other is to change the DNBR setpoint limit from 1.24 to 1.30. These are generic Tech. Spec. changes, and will be implemented on a Unit by Unit basis, beginning with U3C5.

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

The fuel enrichment change was submitted in October 1993 and the DNBR setpoint change was submitted in January 1994.

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.

U3C5 will incorporate a new higher maximum enrichment level of 4.30^{W/o} U235 and will also utilize a new integral burnable absorber, Erbium.

The NRC granted a license amendment (No. 35) which allows the use of 80 fuel rods clad with advanced zirconium based alloys (other than Zircaloy-4) in two fuel assemblies during Unit 3 Cycles 4, 5, and 6 for in-reactor performance evaluation. Date of issuance was July 20, 1992.

6. The number of fuel assemblies.

a) In the core. 241

b) In the spent fuel storage pool. 284

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. 50-530
UNIT NAME PVNGS-3
DATE 02/10/94
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

January 1994

01/01	0000	Unit began the month in Mode 1, 85% RX power.
01/17	0531	The plant experienced load swings due to grid instability caused by an earthquake in southern California. All plant systems and controls functioned normally during the transient and the plant stabilized quickly.
01/17	0705	Notified by Unit 1 to reduce turbine load by 250 MW due to grid instability from the California earthquake causing lower grid load. Control room staff were directed to reduce load 250 MW and to allow Tcold to increase if necessary. Commenced power decrease to 900 MW using part length control rods for ASI control.
01/17	0724	Stopped power decrease at 75% power at the direction of Unit 1.
01/17	0735	Commenced power increase back to 85% power.
01/17	0957	Stabilized RX power at 85%.
01/31	2400	Unit ended the month in Mode 1, 85% RX power.

SHUTDOWNS AND POWER REDUCTIONS
January 1994

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 02/10/94
COMPLETED BY B. S. Ecklund
TELEPHONE (602)340-4068

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 January, 1994

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 (NUREG0161)

⁵Exhibit H-Same Source

