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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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LEVINE, J.M. Arizona Public Service Co. (formerly Arizona Nuclear Power

RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Jan 1996 for PVNGS Units 1, 2 & 3.
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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

182-06124-JML/JLT/JDF
February 13, 1996

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Dear Sirs:

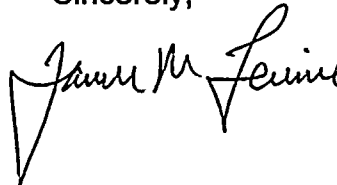
Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
Monthly Operating Reports for JANUARY 1996

Enclosed are the Monthly Operating Reports for JANUARY 1996, 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) 393-5277.

Sincerely,



JML/JLT/JDF/clj

Enclosures: JANUARY 1996 Monthly Operating Reports

cc: L. J. Callan (all w/enclosures)
K. E. Perkins
NRC Senior Resident Inspector
INPO Records Center
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NRC Monthly Operating Report
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NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 2/9/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: January 1996
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1249
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1227
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	87,744
12.	Hours Reactor was Critical	744.0	744.0	58,707.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	744.0	57,647.1
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,826,311	2,826,311	208,362,515
17.	Gross Electrical Energy Generated (MWH)	974,700	974,700	72,085,200
18.	Net Electrical Energy Generated (MWH)	921,764	921,764	67,679,485
19.	Unit Service Factor (%)	100.0%	100.0%	65.7%
20.	Unit Availability Factor (%)	100.0%	100.0%	65.7%
21.	Unit Capacity Factor (Using MDC Net)	101.0%	101.0%	63.2%
22.	Unit Capacity Factor (Using DER Net)	99.2%	99.2%	60.7%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	12.1%

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

INITIAL CRITICALITY	Forecast	Achieved
INITIAL ELECTRICITY	05/85	05/25/85
COMMERCIAL OPERATION	06/85	06/10/85
	12/85	01/28/86

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 2/9/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

MONTH: January 1996

DAY AVERAGE DAILY POWER LEVEL

1	1241
2	1242
3	1244
4	1245
5	1244
6	1245
7	1244
8	1243
9	1238
10	1239
11	1241
12	1245
13	1245
14	1246
15	1245
16	1244

DAY AVERAGE DAILY POWER LEVEL

17	1241
18	1244
19	1241
20	1240
21	1244
22	1243
23	1243
24	1243
25	1244
26	1245
27	1244
28	1243
29	1243
30	1242
31	1237

REFUELING INFORMATION

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 2/9/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

1. Scheduled date for next refueling shutdown.

The 6th refueling outage is scheduled to begin on 09/07/96.

2. Scheduled date for restart following refueling.

10/27/96.

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.

5/20/96

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. 456

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>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>2/9/96</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 393-5277</u>

January 1996

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

SHUTDOWNS AND POWER REDUCTIONS
January 1996

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 2/9/96
COMPLETED BY J. D. Fulton
TELEPHONE (602)393-5277

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 1996.

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 2/9/96
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: January 1996
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1249
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1227
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	82,128
12.	Hours Reactor was Critical	715.8	715.8	58,850.9
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	691.0	691.0	57,713.2
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,563,541	2,563,541	210,591,154
17.	Gross Electrical Energy Generated (MWH)	890,000	890,000	73,219,470
18.	Net Electrical Energy Generated (MWH)	842,244	842,244	68,606,995
19.	Unit Service Factor (%)	92.9%	92.9%	70.3%
20.	Unit Availability Factor (%)	92.9%	92.9%	70.3%
21.	Unit Capacity Factor (Using MDC Net)	92.3%	92.3%	68.4%
22.	Unit Capacity Factor (Using DER Net)	90.6%	90.6%	65.8%
23.	Unit Forced Outage Rate (%)	7.1%	7.1%	5.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): 6th Refueling outage is scheduled for 3/16/96.
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>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 2/9/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

MONTH: January 1996

DAY AVERAGE DAILY POWER LEVEL

1	1264
2	1264
3	1265
4	1264
5	1265
6	1264
7	1263
8	1263
9	1263
10	1263
11	1262
12	1263
13	1263
14	1264
15	1263
16	1261

DAY AVERAGE DAILY POWER LEVEL

17	1258
18	1263
19	1264
20	1263
21	606
22	0
23	50
24	637
25	1221
26	1261
27	1257
28	1262
29	1263
30	1262
31	1262

REFUELING INFORMATION

DOCKET NO.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>2/9/96</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 393-5277</u>

1. Scheduled date for next refueling shutdown.

The 6th refueling outage is scheduled for 03/16/96.

2. Scheduled date for restart following refueling.

05/01/96.

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

- a. Technical Specification 3.2.6 "Reactor Coolant Cold Leg Temperature" figure 3.2-1 to establish new 100% power operation allowable temperature from 560°F to 550°F.

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

Submitted 01/05/96.

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.

Stretch Power to 102%.

6. The number of fuel assemblies.

- a) In the core. 241
b) In the spent fuel storage pool. 444

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	2/9/96
COMPLETED BY	J. D. Fulton
TELEPHONE	(602) 393-5277

January 1996

01/01	0000	Unit began the month in Mode 1 at 100% RX power.
01/21	1130	RX trip on steam generator level low with AFAS 1&2. Entered Mode 3.
01/22	1508	Entered Mode 2.
01/22	1544	RX Critical.
01/23	1106	Entered Mode 1.
01/23	1630	Synchronized the Main Generator.
01/24	0330	Stopped RX power increase at 50% for chemistry.
01/25	0540	RX power at 100%
01/31	2359	Unit ended the month in Mode 1 at 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS
January 1996

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 2/9/96
COMPLETED BY J. D. Fulton
TELEPHONE (602)393-5277

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
96-01	01/22/96	F	53.0	A	3	N/A	N/A	N/A	RX automatically tripped due to low steam generator level. Trip was due to improper start of Condensate pump.

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 2/9/96
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: January 1996
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1253
6. Maximum Dependable Capacity (Gross MWe): 1302
7. Maximum Dependable Capacity (Net MWe): 1230
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	70,704
12.	Hours Reactor was Critical	744.0	744.0	53,437.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	744.0	52,721.0
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,822,904	2,822,904	193,187,962
17.	Gross Electrical Energy Generated (MWH)	979,100	979,100	67,452,200
18.	Net Electrical Energy Generated (MWH)	929,486	929,486	63,439,028
19.	Unit Service Factor (%)	100.0%	100.0%	74.6%
20.	Unit Availability Factor (%)	100.0%	100.0%	74.6%
21.	Unit Capacity Factor (Using MDC Net)	101.6%	101.6%	73.5%
22.	Unit Capacity Factor (Using DER Net)	99.7%	99.7%	70.6%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	5.3%

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

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 2/9/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

MONTH: January 1996

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1255	17	1252
2	1256	18	1256
3	1258	19	1255
4	1257	20	1255
5	1256	21	1256
6	1231	22	1255
7	1234	23	1256
8	1254	24	1255
9	1255	25	1255
10	1255	26	1255
11	1255	27	1255
12	1258	28	1255
13	1260	29	1254
14	1258	30	1258
15	1256	31	1257
16	1254		

REFUELING INFORMATION

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>2/9/96</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 393-5277</u>

1. Scheduled date for next refueling shutdown.

The 6th refueling outage is scheduled for 3/15/97.

2. Scheduled date for restart following refueling.

5/7/97.

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

None.

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

None.

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. 456

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>2/9/96</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 393-5277</u>

January 1996

01/01	0000	Unit began the month in Mode 1 at 100% RX power.
01/06	1845	#4 control valve failed closed. RX power decreased to 90%.
01/07	0459	RX power at 100%.
01/31	2359	Unit ended the month in Mode 1 at 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS
January 1996

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 2/9/96
COMPLETED BY J. D. Fulton
TELEPHONE (602)393-5277

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 1996.

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

