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AUTH.NAME AUTHOR AFFILIATION
PORTER,K.F. Arizona Public Service Co. (formerly Arizona Nuclear Power
LEVINE,J.M. Arizona Public Service Co. (formerly Arizona Nuclear Power
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SUBJECT: Monthly operating repts for June 1990 for Palo Verde
Generating Station Units 1,2 & 3.W/900713 ltr.

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

254-01024-JML/KFP
July 13, 1990

Docket Nos. STN 50-528/529/530

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Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Monthly Operating Reports for June 1990
File: 90-024-404

Attached are the Monthly Operating Reports for June 1990 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

J. M. Levine
Vice President
Nuclear Production

JML/KFP
Attachments

cc: S. Peterson (all w/attachments)
J. B. Martin
D. H. Coe
INPO Records Center

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NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: June 1990
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

		This Month	Yr.-to-Date	Cumulative
11.	Hours in Reporting Period	720	4,344	38,760
12.	Number of Hours Reactor Was Critical	137.6	137.6	17,399.7
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	0.0	0.0	16,826.9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	10,825	10,825	60,942,046
17.	Gross Electrical Energy Generated (MWH)	0	0	21,163,100
18.	Net Electrical Energy Generated (MWH)	0	0	19,793,190
19.	Unit Service Factor	0.0%	0.0%	43.4%
20.	Unit Availability Factor	0.0%	0.0%	43.4%
21.	Unit Capacity Factor (Using MDC Net)	0.0%	0.0%	41.8%
22.	Unit Capacity Factor (Using DER Net)	0.0%	0.0%	40.2%
23.	Unit Forced Outage Rate	0.0%	0.0%	28.1 %

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: July 5, 1990 (Actual Start-up Date)

	Forecast	Achieved
INITIAL CRITICALITY	05/85	05/25/85
INITIAL ELECTRICITY	06/85	06/10/85
COMMERCIAL OPERATION	11/85	01/28/86

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

MONTH: JUNE 1990

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0		
16	0		

REFUELING INFORMATION

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

1. Scheduled date for next refueling shutdown.

   02/01/92, 3rd refueling.

2. Scheduled date for restart following refueling.

   04/11/92

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, and new operating procedures.

   To be determined.

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 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

June 1990

06/01	00:00	Unit began the month in Mode 5, 2nd Refueling Outage.
06/13	18:41	Unit entered Mode 4.
06/14	14:10	Unit entered Mode 3.
06/24	19:55	Unit entered Mode 2, low power physics testing.
06/25	08:53	Unit entered Mode 3, planned RX trip during low power physics testing.
06/25	19:21	Unit entered Mode 2, continuation of low power physics testing.
06/30	02:26	Unit entered Mode 1.
06/30	24:00	Unit ended the month in Mode 1, 2nd Refueling Outage.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

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	720	C	4	N/A	N/A	N/A	Continuation of 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. 50-529
UNIT NAME PVNGS-2
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: June 1990
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

		This Month	Yr.-to-Date	Cumulative
11.	Hours in Reporting Period	720	4,344	33,144
12.	Number of Hours Reactor Was Critical	0.0	1,295.0	20,546.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	0.0	1,295.0	20,042.2
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	0	4,870,700	73,499,053
17.	Gross Electrical Energy Generated (MWH)	0	1,712,500	25,682,370
18.	Net Electrical Energy Generated (MWH)	0	1,614,008	23,996,820
19.	Unit Service Factor	0.0%	29.8%	60.5%
20.	Unit Availability Factor	0.0%	29.8%	60.5%
21.	Unit Capacity Factor (Using MDC Net)	0.0%	30.4%	59.3%
22.	Unit Capacity Factor (Using DER Net)	0.0%	29.3%	57.0%
23.	Unit Forced Outage Rate	0.0%	0.0%	9.9%

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: July 16, 1990

	Forecast	Achieved
INITIAL CRITICALITY	03/86	04/18/86
INITIAL ELECTRICITY	06/86	05/20/86
COMMERCIAL OPERATION	11/86	09/19/86

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

MONTH: JUNE 1990

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0		
16	0		

REFUELING INFORMATION

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

1. Scheduled date for next refueling shutdown.

   10/17/91, 3rd refueling.

2. Scheduled date for restart following refueling.

   12/26/91

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, and new operating procedures.

   To be determined.

6. The number of fuel assemblies.

   a) In the core. 241
   b) In the spent fuel storage pool. 204

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. 50-529
UNIT NAME PVNGS-2
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

June 1990

06/01	00:00	Unit began the month in Mode 6, 2nd Refueling Outage.
06/03	11:24	Unit entered Mode 5.
06/30	24:00	Unit ended the month in Mode 5, 2nd Refueling Outage.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

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
90/01	02/23/90	S	720	C	4	N/A	N/A	N/A	Continuation of 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. 50-530
UNIT NAME PVNGS-3
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: June 1990
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

		This Month	Yr.-to-Date	Cumulative
11.	Hours in Reporting Period	720	4,344	21,720
12.	Number of Hours Reactor Was Critical	720.0	3,813.2	13,224.4
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	720.0	3,714.7	12,988.7
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,723,341	13,061,555	47,471,946
17.	Gross Electrical Energy Generated (MWH)	954,400	4,583,100	16,650,900
18.	Net Electrical Energy Generated (MWH)	901,098	4,291,203	15,654,668
19.	Unit Service Factor	100.0%	85.5%	59.8%
20.	Unit Availability Factor	100.0%	85.5%	59.8%
21.	Unit Capacity Factor (Using MDC Net)	102.5%	80.9%	59.0%
22.	Unit Capacity Factor (Using DER Net)	98.5%	77.8%	56.8%
23.	Unit Forced Outage Rate	0.0%	14.4%	10.9%

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	07/87	10/25/87
INITIAL ELECTRICITY	07/87	11/28/87
COMMERCIAL OPERATION	09/87	01/08/88

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

MONTH: JUNE 1990

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1261	17	1252
2	1261	18	1252
3	1259	19	1251
4	1254	20	1249
5	1252	21	1249
6	1255	22	1248
7	1255	23	1245
8	1248	24	1241
9	1219	25	1240
10	1245	26	1241
11	1251	27	1243
12	1248	28	1243
13	1249	29	1240
14	1253	30	1245
15	1252		
16	1256		

REFUELING INFORMATION

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

1. Scheduled date for next refueling shutdown.

   03/16/91, 2nd refueling.

2. Scheduled date for restart following refueling.

   05/25/91

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, and 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. 50-530
UNIT NAME PVNGS-3
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

June 1990

06/01	00:00	Unit began the month in Mode 1, 100% RX power.
06/09	05:00	Began RX power reduction to 95% for planned valve testing.
06/09	13:27	Unit back at 100% RX power.
06/30	24:00	Unit ended the month in Mode 1, 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

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

No outages or power reductions of greater than 20% occurred during the month.

[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