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AUTH.NAME AUTHOR AFFILIATION
COLVILLE,J.M. Arizona Nuclear Power Project (formerly Arizona Public Serv
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SUBJECT: Monthly operating repts for Jan 1988.W/880215 ltr.

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Arizona Nuclear Power Project
P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

212-00107-JGH/TJB
February 15, 1988

Docket Nos. STN 50-528/529/530

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Document Control Desk

Gentlemen:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2 and 3
January Monthly Operating Report
File: 88-024-404; 88-056-026

Attached are the January Monthly Operating Reports 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 a copy of the Monthly Operating Reports to the Regional Administrator of the Region V Office.

Due to PVNGS Unit 3 being declared commercial on January 8, 1988, there are two separate reports for Unit 3.

If you have any questions, please contact Mr. T. J. Bloom, at (602) 371-4187.

Very truly yours,

J. G. Haynes/sms

J. G. Haynes
Vice President
Nuclear Production

JGH/TJB/rw
Attachments

cc: O. M. De Michele (all w/a)
E. E. Van Brunt, Jr.
J. B. Martin
E. A. Licitra
A. C. Gehr
J. A. Amenta
INPO Records Center

IE24
1/1

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

OPERATING STATUS

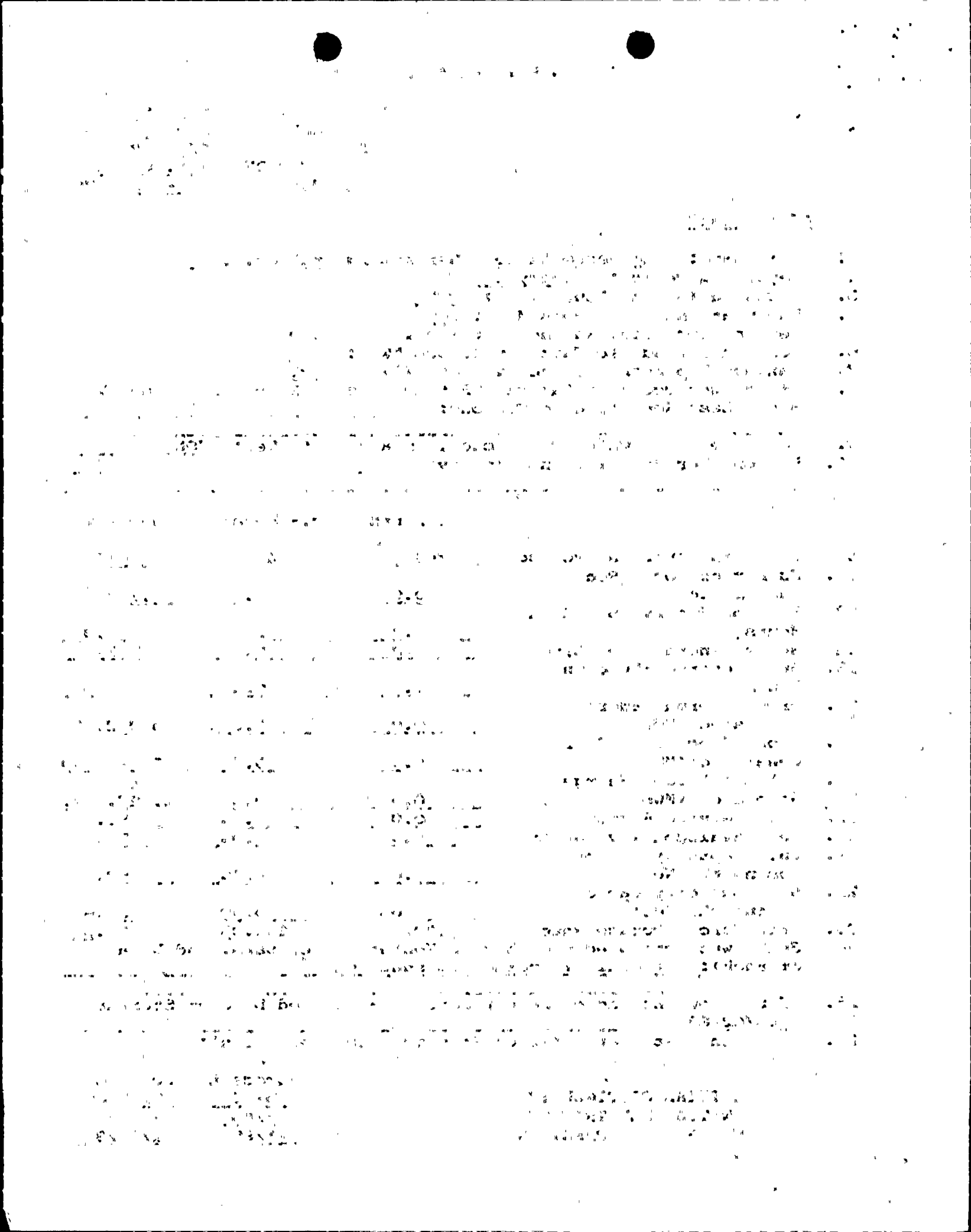
1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: January 1988
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1270
6. Maximum Dependable Capacity (Gross MWe): 1303
7. Maximum Dependable Capacity (Net MWe): 1221
8. If Changes Occur In Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: _____
9. Power Level to Which Restricted, If Any (Net MWe): NONE
10. Reasons For Restrictions, If Any: _____

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	744	744	17616
12. Number of Hours Reactor Was Critical	0.0	0.0	9,977.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	0.0	0.0	9,717.1
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	0.0	0.0	35,032,837
17. Gross Electrical Energy Generated (MWH)	0.0	0.0	12,143,300
18. Net Electrical Energy Generated (MWH)	0.0	0.0	11,327,924.6
19. Unit Service Factor	0.0%	0.0%	55.2%
20. Unit Availability Factor	0.0%	0.0%	55.2%
21. Unit Capacity Factor (Using MDC Net)	0.0%	0.0%	52.7%
22. Unit Capacity Factor (Using DER Net)	0.0%	0.0%	50.6%
23. Unit Forced Outage Rate	100.0%	100.0%	27.0%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Currently in refueling shutdown
25. If Shutdown At End of Report Period, Estimated Date of Startup: 03/02/88
26. Units in Test Status (Prior To Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	5/85	5/25/85
INITIAL ELECTRICITY	6/85	6/10/85
COMMERCIAL OPERATION	11/85	1/28/86

IE24
1/1



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

MONTH: January 1988

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	31	0
16	0		

REFUELING INFORMATION

DOCKET NO.	50-528
UNIT	PVNGS-1
DATE	02/10/88
COMPLETED BY	J.M. Colville
TELEPHONE	602-393-2679

1. Scheduled date for next refueling shutdown.

   10/02/87

2. Scheduled date for restart following refueling.

   03/02/88

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

   Yes

   Required Technical Specifications are as follows:

   5.3.1, 3/4.1.1.2, 3/4.1.1.3, 3/4.2.8, 3/4.1.3.1, 3/4.3.1, 3/4.1.3.6, 3/4.3.1, 2.1.1, 3/4.2.5, 3/4.2.1, 3/4.2.4, 3/4.2.7, 3/4.3.2

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

   July 1, 1987

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.

   a) Modification of the CPCs under the CPC Improvement Program (CIP) and the Statistical Combination of Uncertainties (SCU) Program.

   b) Maximum peak pin fuel enrichment will be 4.05 w % U235.

   c) The fuel vendor for the following next 5 reloads will be Combustion Engineering.

REFUELING INFORMATION

DOCKET NO. 50-528
UNIT PVNGS-1
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

(Continued)

6. The number of fuel assemblies.

   a) In the core. 241

   b) In the spent fuel storage pool. 80

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.

   2006 (18 Months reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-528
UNIT PVNGS-1
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

January 1988

01/01	0000	Unit in Mode 5.
01/08	1244	Entered Mode 4.
01/09	2258	Entered Mode 3.
01/10	1430	Entered Mode 4 due to excessive RCS leakage.
01/11	0004	Entered Mode 5 to repair 1A and 1B Reactor Coolant Pump seals.
01/16	0058	Loss of offsite power and damage to 13.8 KV Calvert bus tie was experienced. Bus ground fault caused the startup transformer to relay out resulting in a loss of offsite power on the A train 4.16 KV bus.
01/19	1801	Entered Mode 4.
01/21	0605	Entered Mode 3.
01/23	0930	Entered Mode 4 due to a body-to-bonnet leak on an unisolable RCS boundary valve and to repair a stuck Control Element Assembly.
01/23	1330	Entered Mode 5.
01/31	2400	Unit in Mode 5.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-528
UNIT NAME: PVNGS-1
DATE: 2/10/88
COMPLETED BY: J.M. Colville
TELEPHONE: 602-393-2679

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
10	(Cont'd)	S	281.9	C	1	N/A	N/A	N/A	Unit shut down due to Refueling Outage.
	(Cont'd)	F	462.1	A	-	-	-	-	Unit shutdown to repair an inoperable Control Element Assembly.

[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 (Explain)
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 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 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: January 1988
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: _____
9. Power Level to Which Restricted, If Any (Net MWe): NONE
10. Reasons For Restrictions, If Any: _____

		This Month	Yr.-to-Date	Cumulative
11.	Hours in Reporting Period	744	744	12,000
12.	Number of Hours Reactor Was Critical	744	744	10,019.1
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	744	744	9,870.2
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	2,796,621.	2,796,621.	36,003,788
17.	Gross Electrical Energy Generated (MWH)	984,300.	984,300.	12,645,570
18.	Net Electrical Energy Generated (MWH)	927,757.	927,757.	11,864,639
19.	Unit Service Factor	100.0%	100.0%	82.3%
20.	Unit Availability Factor	100.0%	100.0%	82.3%
21.	Unit Capacity Factor (Using MDC Net)	102.1%	102.1%	81.0%
22.	Unit Capacity Factor (Using DER Net)	98.2%	98.2%	77.9%
23.	Unit Forced Outage Rate	0.0%	0.0%	6.2%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Scheduled Date for next Refueling Shutdown -2/21/88
Duration of refueling shutdown approximately 84 days
25. If Shutdown At End of Report Period, Estimated Date of Startup: _____
26. Units in Test Status (Prior To Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	3/86	4/18/86
INITIAL ELECTRICITY	6/86	5/20/86
COMMERCIAL OPERATION	11/86	9/19/86

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529
UNIT PVNGS-2
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

MONTH: January 1988

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1,270	17	1,258
2	1,253	18	1,262
3	1,262	19	1,262
4	1,262	20	1,262
5	1,262	21	1,262
6	1,253	22	1,249
7	1,262	23	1,020
8	1,258	24	1,099
9	1,262	25	1,262
10	1,258	26	1,258
11	1,258	27	1,258
12	1,262	28	1,262
13	1,266	29	1,262
14	1,258	30	1,262
15	1,262	31	1,258
16	1,267		

REFUELING INFORMATION

DOCKET NO. 50-529
UNIT PVNGS-2
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

1. Scheduled date for next refueling shutdown.

   02/21/88

2. Scheduled date for restart following refueling.

   05/15/88

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

   YES

   What will these be?

   3/4 1.1.2 , 3/4 1.1.3 , 3/4 2.8 , 3/4 1.3.1 , 3/4 3.1 , 3/4 1.3.6, 3/4 2.5 , 3/4 2.1 , 3/4 2.4 , 3/4 2.3 , 3/4 3.2 2.1.1.1

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

   12/15/87

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.

   a) Modification of the CPCs under the CPC Improvement Program (CIP) and the Statistical Combination of Uncertainties (SCU) Program.

   b) Maximum peak pin fuel enrichment will be 4.05 w % U235.

   c) The fuel vendor for the following next 5 reloads will be Combustion Engineering.

REFUELING INFORMATION

DOCKET NO.	50-529
UNIT	PVNGS-2
DATE	02/10/88
COMPLETED BY	J.M. Colville
TELEPHONE	602-393-2679

(Continued)

6. The number of fuel assemblies.

   a) In the core. 241

   b) In the spent fuel storage pool. 0

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.

   2006 (18 Months reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	50-529
UNIT	PVNGS-2
DATE	02/10/88
COMPLETED BY	J.M. Colville
TELEPHONE	602-393-2679

January 1988

01/01	0000	Unit in Mode 1 - Reactor Power 100%.
01/22	1800	Power reduction to approximately 75% for CEAC Testing.
01/24	2100	Reactor Power 100%.
01/31	2400	Reactor Power 100%.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-529
UNIT NAME: PVNGS-2
DATE: 2/10/88
COMPLETED BY: J.M. Colville
TELEPHONE: 602-393-2679

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
1[illegible]	1/22	S	N/A	B	5	N/A	N/A	N/A	Power reduction to approximately 75% for CEAC testing.

[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 (Explain)
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 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 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: January 1988
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: _____
9. Power Level to Which Restricted, If Any (Net MWe): NONE
10. Reasons For Restrictions, If Any: _____

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	168	168	6216
12. Number of Hours Reactor Was Critical	168.0	168.0	1,113.9
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	168.0	168.0	788.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	626,362.	626,362.0	1,870,549.
17. Gross Electrical Energy Generated (MWH)	218,600.	218,600.	583,900.
18. Net Electrical Energy Generated (MWH)	213,599.	213,599.	533,260.
19. Unit Service Factor	N/A	N/A	N/A
20. Unit Availability Factor	N/A	N/A	N/A
21. Unit Capacity Factor (Using MDC Net)	N/A	N/A	N/A
22. Unit Capacity Factor (Using DER Net)	N/A	N/A	N/A
23. Unit Forced Outage Rate	0	0	0

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): _____
25. If Shutdown At End of Report Period, Estimated Date of Startup: _____
26. Units in Test Status (Prior To Commercial Operation):

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

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

COMMERCIAL OPERATION
OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: January 1988
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: _____
9. Power Level to Which Restricted, If Any (Net MWe): NONE
10. Reasons For Restrictions, If Any: _____

		This Month	Yr.-to-Date	Cumulative
11.	Hours in Reporting Period	576	576	576
12.	Number of Hours Reactor Was Critical	576.0	576.0	576.0
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	576.0	576.0	576.0
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	2,173,113.	2,173,113.0	2,173,113.
17.	Gross Electrical Energy Generated (MWH)	764,900.	764,900.	764,900.
18.	Net Electrical Energy Generated (MWH)	724,533.	724,533.	724,533.
19.	Unit Service Factor	100.0%	100.0%	100.0%
20.	Unit Availability Factor	100.0%	100.0%	100.0%
21.	Unit Capacity Factor (Using MDC Net)	103.0%	103.0%	103.0%
22.	Unit Capacity Factor (Using DER Net)	99.0%	99.0%	99.0%
23.	Unit Forced Outage Rate	0.0%	0.0%	0.0%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): _____
25. If Shutdown At End of Report Period, Estimated Date of Startup: _____
26. Units in Test Status (Prior To Commercial Operation):

	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 PVNGS-3
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

MONTH: January 1988

DAY	AVERAGE DAILY POWER LEVEL
1	1,276
2	1,268
3	1,246
4	1,242
5	1,234
6	1,271
7	1,269

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
UNIT PVNGS-3
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

COMMERCIAL OPERATION
MONTH: January 1988

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
8	1,273	20	1,265
9	1,273	21	1,252
10	1,277	22	1,261
11	1,273	23	1,265
12	1,265	24	1,265
13	1,261	25	1,265
14	1,269	26	1,269
15	1,265	27	1,261
16	1,240	28	1,261
17	1,256	29	1,248
18	1,256	30	1,244
19	1,265	31	1,256

REFUELING INFORMATION

DOCKET NO. 50-530
UNIT PVNGS-3
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

1. Scheduled date for next refueling shutdown.

   02/25/89

2. Scheduled date for restart following refueling.

   05/05/89

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

   Not Yet Determined

   What will these be?

   Not Yet Determined

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

   Not Yet 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.

   Not Yet Determined

6. The number of fuel assemblies.

   a) In the core. 241

   b) In the spent fuel storage pool. 0

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.

   2007 (18 Months reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-530
UNIT PVNGS-3
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

January 1988

01/01	0000	Unit in Mode 1 - Reactor Power 100%.
01/06	1710	Started 100 Hour Warranty Run.
01/07	2400	Unit in Mode 1 - Reactor Power 100%.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-530
UNIT PVNGS-3
DATE 02/10/88
COMPLETED BY J.M. Colville
TELEPHONE 602-393-2679

COMMERCIAL OPERATION

January 1988

01/08	0001	Commercial Operation declared.
01/10	2115	100 hours completed for Warranty Run.
01/31	2400	Unit in Mode 1 - Reactor Power 100%.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-530
UNIT NAME: PVNGS-3
DATE: 2/10/88
COMPLETED BY: J.M. Colville
TELEPHONE: 602-393-2679

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

JANUARY - No Unit Shutdowns or Power Reductions

[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 (Explain)
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 Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

[5] Exhibit H-Same Source