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SUBJECT: Monthly operating repts for Dec 1987.W/880113 ltr.

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NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: December 1987
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	8760	16872
12. Number of Hours Reactor Was Critical	0.0	4,589.1	9,977.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	0.0	4,505.5	9,717.1
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	0.0	16,140,694.	35,032,837
17. Gross Electrical Energy Generated (MWH)	0.0	5,616,400.	12,143,300
18. Net Electrical Energy Generated (MWH)	0.0	5,268,268.6	11,327,924.6
19. Unit Service Factor	0.0%	51.4%	57.6%
20. Unit Availability Factor	0.0%	51.4%	57.6%
21. Unit Capacity Factor (Using MDC Net)	0.0%	49.3%	55.0%
22. Unit Capacity Factor (Using DER Net)	0.0%	47.4%	52.9%
23. Unit Forced Outage Rate	0.0%	31.7%	24.4%

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: Estimated Mode 2 entry, 01/14/87
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 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

MONTH: December 1987

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 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

1. Scheduled date for next refueling shutdown.

   10/02/87

2. Scheduled date for restart following refueling.

   01/14/88

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 01/08/88
COMPLETED BY J.L. Hull
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 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

December 1987

12/01		Unit in Refueling Outage - Mode 6.
12/02	0500	Entered Mode 5
12/31		Unit in Refueling Outage - Mode 5.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-528
UNIT NAME: PVNGS-1
DATE: 01/08/88
COMPLETED BY: J.L. Hull
TELEPHONE: 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	Continued	S	744	C	1	N/A	N/A	N/A	Unit shut down due to 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 (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 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: December 1987
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	8760	11256
12. Number of Hours Reactor Was Critical	744	6,985.2	9,275.1
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744	6,859.2	9,126.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,799,320.	24,912,161.	33,207,167
17. Gross Electrical Energy Generated (MWH)	987,000.	8,733,100.	11,661,270
18. Net Electrical Energy Generated (MWH)	933,198.	8,190,044.	10,936,882
19. Unit Service Factor	100.0%	78.3%	81.1%
20. Unit Availability Factor	100.0%	78.3%	81.1%
21. Unit Capacity Factor (Using MDC Net)	102.7%	76.6%	79.6%
22. Unit Capacity Factor (Using DER Net)	98.8%	73.6%	76.5%
23. Unit Forced Outage Rate	0.0%	5.8%	6.6%

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 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

MONTH: December 1987

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1,272	17	1,267
2	1,267	18	1,259
3	1,267	19	1,267
4	1,267	20	1,263
5	1,263	21	1,267
6	1,263	22	1,272
7	1,267	23	1,267
8	1,267	24	1,263
9	1,263	25	1,188
10	1,272	26	988
11	1,259	27	1,247
12	1,272	28	1,263
13	1,272	29	1,263
14	1,267	30	1,267
15	1,272	31	1,263
16	1,267		

REFUELING INFORMATION

DOCKET NO.	50-529
UNIT	PVNGS-2
DATE	01/08/88
COMPLETED BY	J.L. Hull
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 01/08/88
COMPLETED BY J.L. Hull
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 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

December 1987

12/01		Reactor Power 100%.
12/25	0923	Power reduction to 75% for monthly surveillance testing and secondary side maintenance on the moisture separator reheater.
12/26		Completed power reduction to 75%
12/27	0030	Reactor Power at 90%
12/27	0515	Reactor Power at 100%
12/31	2400	Reactor Power at 100%

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-529
UNIT NAME: PVNGS-2
DATE: 01/08/88
COMPLETED BY: J.L. Hull
TELEPHONE: 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
17	12/25	S	N/A	B	55	N/A	N/A	N/A	Power reduction to 75% for monthly surveillance testi and secondary maintenance (MSR leak repair)

[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 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: December 1987
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	6048	6048
12. Number of Hours Reactor Was Critical	677.0	945.9	945.9
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	606.6	620.7	620.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,192,385.	1,244,187.0	1,244,187.
17. Gross Electrical Energy Generated (MWH)	364,100.	365,300.	365,300.
18. Net Electrical Energy Generated (MWH)	319,661.	319,661.	319,661.
19. Unit Service Factor	0	0	0
20. Unit Availability Factor	0	0	0
21. Unit Capacity Factor (Using MDC Net)	0	0	0
22. Unit Capacity Factor (Using DER Net)	0	0	0
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	----------

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
UNIT PVNGS-3
DATE 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

MONTH: December 1987

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	70	17	59
2	78	18	0
3	120	19	126
4	141	20	540
5	41	21	552
6	0	22	548
7	3	23	485
8	172	24	623
9	451	25	802
10	551	26	907
11	576	27	970
12	580	28	1,036
13	555	29	361
14	572	30	197
15	505	31	1,149
16	559		

REFUELING INFORMATION

DOCKET NO.	50-530
UNIT	PVNGS-3
DATE	01/08/88
COMPLETED BY	J.L. Hull
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 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

December 1987

12/01		Reactor at 12% Mode 1
12/02	1750	Tripped turbine due to steam leak between control valve and the high pressure turbine - Reactor power at approximately 19.5%.
12/03	0026	Synchronized Main Generator to grid
12/05	1140	Reactor at approximately 19% the reactor was tripped for testing of remote shutdown panel. Mode 3
12/06	1302	Reactor critical Mode 2
12/06	1508	Entered Mode 1
12/06	1656	Synchronized Main Generator to grid
12/07	0201	Reactor power approximately 19% lowering power to 2% to allow for turbine work.
12/07	0315	Tripped Main Turbine, Mode 3
12/07	0429	Entered Mode 2, reactor critical
12/07	1112	Entered Mode 1
12/07	1615	Synchronized Main Generator to grid
12/07	2325	Tripped Main Generator for Subsynchronous Resonance Testing, reactor at approximately 13%.
12/08	0215	Synchronized Main Generator to grid
12/08	1330	Reactor power 30%
12/09	0137	Reactor power 50%
12/17	0430	Reactor trip occurred as a result of Lo DNBR calculated by CPCs. During insertion of part length CEAs a subgroup deviation occurred between groups P1 and P2, causing the insertion of a subgroup deviation penalty factor.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	50-530
UNIT	PVNGS-3
DATE	01/08/88
COMPLETED BY	J.L. Hull
TELEPHONE	602-393-2679

December 1987

12/18	2207	Reactor Critical Mode 2
12/19	0412	Entered Mode 1
12/19	0625	Synchronized to grid
12/19	0838	Turbine tripped due to high vibration
12/19	1535	Synchronized Main Generator to grid
12/19	1535	Turbine tripped on reverse power.
12/19	1610	Synchronized Main Generator to grid
12/24	1439	Reactor power 60%
12/26	1115	Reactor power 80%
12/29	0827	Turbine trip following a main generator trip on high stator cooling water temperature. Temperature switches were miscalibrated, initiating a generator trip when stator cooling water temperatures were in normal range.
12/29	1000	Entered Mode 2
12/30	0833	Entered Mode 1
12/30	1240	Synchronized Main Generator to grid
12/31	1821	Reactor power 100%
12/31	2400	Reactor power 100%

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-530
UNIT NAME: PVNGS-3
DATE: 1/8/88
COMPLETED BY: J.L. Hull
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
4	12/02	F	6.6	A	N/A	N/A	N/A	N/A	Tripped turbine due to steam leak between control valve and the High Pressure Turbine.
5	12/05	S	29.3	B	2	N/A	N/A	N/A	Reactor tripped for testing of Remote Shutdown Panel.
6	12/07	F	13.0	B	N/A	N/A	N/A	N/A	Tripped Turbine due to maintenance work on Turbine.
7	12/07	S	2.8	B	N/A	N/A	N/A	N/A	Tripped Turbine for subsynchronous resonance testing.
8	12/17	F	49.9	A	3	3-87-004	AA	ZC	Reactor trip occurred as a result of Lo DNBR calculated by CPCs. During insertion of part length CEAs a subgroup deviation occurred between groups P1 and P2, causing the insertion of a subgroup deviation penalty factor.
9	12/19	F	7.0	A	N/A	N/A	N/A	N/A	Turbine trip due to high vibration.
10	12/19	F	.6	A	N/A	N/A	N/A	N/A	Turbine trip due to reverse power.
11	12/29	F	28.2	A	N/A	N/A	N/A	N/A	Turbine trip due to SBCS Quick Open, recalibrated temperature switches.

[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

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

January 13, 1988
212-00085-JGH/TJB

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
December Monthly Operating Report
File: 88-024-404; 88-056-026

Attached is the December 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.

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

Very truly yours,

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
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