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ACCESSION NBR: 8902230150 DOC. DATE: 89/01/31 NOTARIZED: NO DOCKET #
 FACIL: STN-50-528 Palo Verde Nuclear Station, Unit 1, Arizona Publi 05000528
 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
 BORST, S.G. Arizona Nuclear Power Project (formerly Arizona Public Serv
 HAYNES, J.G. Arizona Nuclear Power Project (formerly Arizona Public Serv
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Jan 1989 for Palo Verde Units 1,
 2 & 3. W/890215 ltr.

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 TITLE: Monthly Operating Report (per Tech Specs)

NOTES: Standardized plant. 05000528
 Standardized plant. 05000529A
 Standardized plant. 05000530

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NOTES: 1 1

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NRC MONTHLY OPERATING REPORT

DOCKET NO.	50-528
UNIT NAME	PVNGS-1
DATE	02/13/89
COMPLETED BY	S. G. Borst
TELEPHONE	(602) 371-4092

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: January 1989
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: 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	<u>744.0</u>	<u>744.0</u>	<u>26,400.0</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>744.0</u>	<u>16,484.1</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>744.0</u>	<u>16,048.9</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,775,471.0</u>	<u>2,775,471.0</u>	<u>56,141,394.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>974,016.0</u>	<u>974,016.0</u>	<u>20,203,416.0</u>
18. Net Electrical Energy Generated (MWH)	<u>924,288.3</u>	<u>924,288.3</u>	<u>18,920,903.0</u>
19. Unit Service Factor	<u>100.0%</u>	<u>100.0%</u>	<u>60.8%</u>
20. Unit Availability Factor	<u>100.0%</u>	<u>100.0%</u>	<u>60.8%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>101.7%</u>	<u>101.7%</u>	<u>58.7%</u>
22. Unit Capacity Factor (Using DER Net)	<u>97.8%</u>	<u>97.8%</u>	<u>56.4%</u>
23. Unit Forced Outage Rate	<u>0.0%</u>	<u>0.0%</u>	<u>26.5%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Refueling Outage - 04/08/89 - 75 Days</u>			

25. If Shutdown At End of Report Period, Estimated Date of Startup:

N/A 8902230150 890131
PDR ADOCK 05000528
R PDC

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

Forecast	Achieved
05/85	05/25/85
06/85	06/10/85
11/85	01/28/86

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 02/13/89
COMPLETED BY S. G. Borst
TELEPHONE (602) 371-4092

MONTH: JANUARY 1989

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1,266</u>
2	<u>1,265</u>
3	<u>1,260</u>
4	<u>1,257</u>
5	<u>1,259</u>
6	<u>1,262</u>
7	<u>1,265</u>
8	<u>1,264</u>
9	<u>1,263</u>
10	<u>1,263</u>
11	<u>1,262</u>
12	<u>1,262</u>
13	<u>1,246</u>
14	<u>1,012</u>
15	<u>1,030</u>
16	<u>1,210</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1,261</u>
18	<u>1,261</u>
19	<u>1,259</u>
20	<u>1,257</u>
21	<u>1,247</u>
22	<u>1,259</u>
23	<u>1,259</u>
24	<u>1,256</u>
25	<u>1,258</u>
26	<u>1,259</u>
27	<u>1,259</u>
28	<u>1,259</u>
29	<u>1,261</u>
30	<u>1,259</u>
31	<u>1,259</u>

REFUELING INFORMATION

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 02/13/89
COMPLETED BY S. G. Borst
TELEPHONE (602) 371-4092

1. Scheduled date for next refueling shutdown.

04/08/89

2. Scheduled date for restart following refueling.

06/21/89

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

Yes, as a minimum it will include the following: 3/4 1.3.6, 3/4 2.3, 3/4 2.4.

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

Submitted on 01/12/89.

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.

The fuel vendor for the next reload will be Combustion Engineering.

6. The number of fuel assemblies

a) In the core. 241

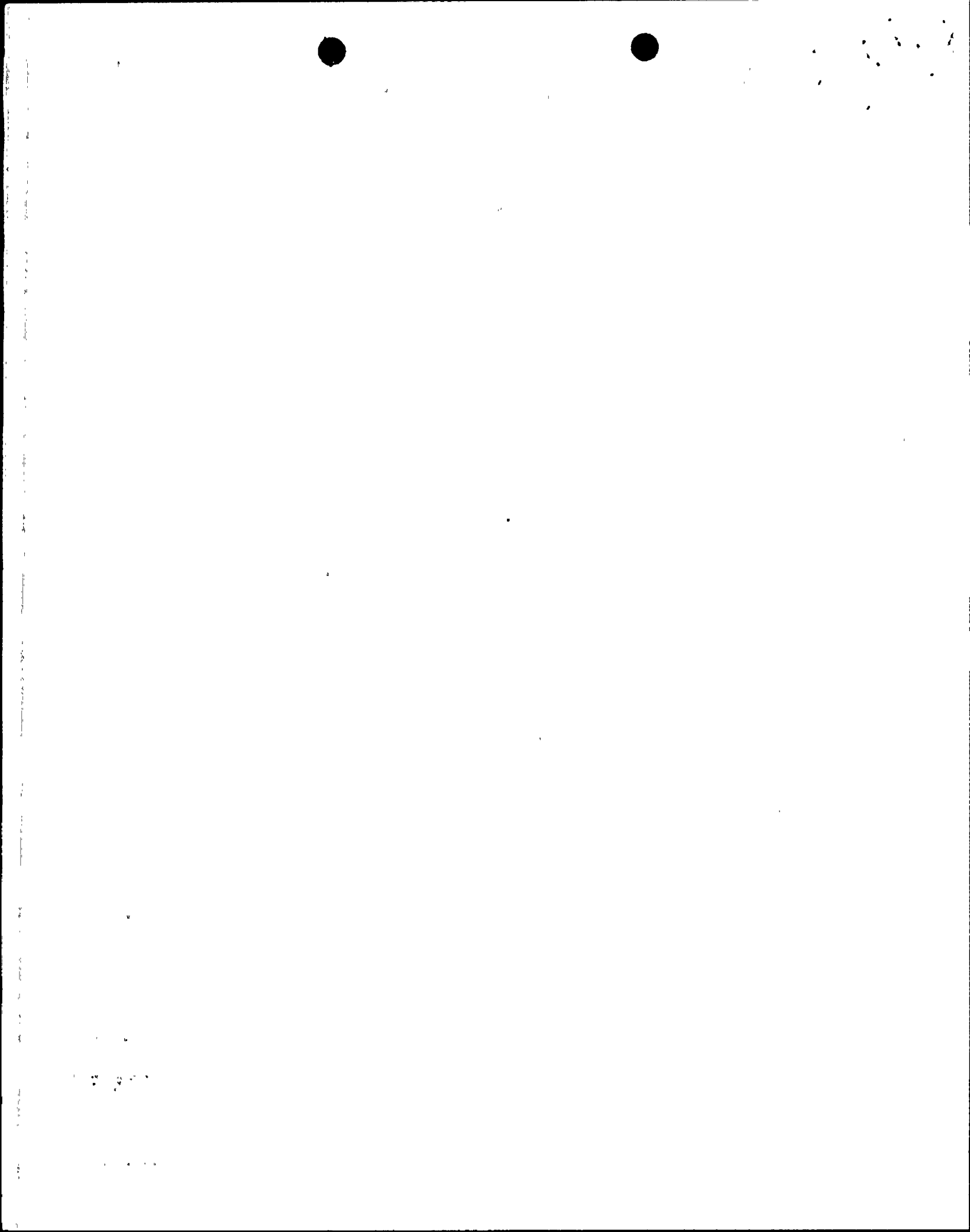
b) In the spent fuel storage pool. 80

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.

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 02/13/89
COMPLETED BY S. G. Borst
TELEPHONE (602) 371-4092

JANUARY 1989

01/01	0000	Reactor power is at 100%.
01/13	2110	Reactor power reduced to 80% for surveillance testing.
01/16	1537	Reactor power is at 100%.
01/31	2400	Reactor power is at 100%.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 02/13/89
COMPLETED BY S. G. Borst
TELEPHONE (602) 371-4092

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
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No Reactor Shutdowns or Significant Power Reductions Occurred During the Month.

1	2	3	4	5
F-Forced S-Scheduled	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)	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)	Exhibit F-Instructions for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)	Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>02/13/89</u>
COMPLETED BY	<u>S. G. Borst</u>
TELEPHONE	<u>(602) 371-4092</u>

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: January 1989
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: 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	<u>744.0</u>	<u>744.0</u>	<u>20,784.0</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>744.0</u>	<u>15,769.1</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>744.0</u>	<u>15,484.7</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,800,843.0</u>	<u>2,800,843.0</u>	<u>56,727,620.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>976,320.0</u>	<u>976,320.0</u>	<u>19,844,790.0</u>
18. Net Electrical Energy Generated (MWH)	<u>919,101.1</u>	<u>919,101.1</u>	<u>18,603,154.0</u>
19. Unit Service Factor	<u>100.0%</u>	<u>100.0%</u>	<u>74.5</u>
20. Unit Availability Factor	<u>100.0%</u>	<u>100.0%</u>	<u>74.5%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>101.2%</u>	<u>101.2%</u>	<u>73.3%</u>
22. Unit Capacity Factor (Using DER Net)	<u>97.3%</u>	<u>97.3%</u>	<u>70.5%</u>
23. Unit Forced Outage Rate	<u>0%</u>	<u>0%</u>	<u>5.2%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>None</u>			
25. If Shutdown At End of Report Period, Estimated Date of Startup: <u>N/A</u>			

	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>11/86</u>	<u>09/19/86</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 02/13/89
COMPLETED BY S. G. Borst
TELEPHONE (602) 371-4092

MONTH: JANUARY 1989

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1,245</u>
2	<u>1,245</u>
3	<u>1,243</u>
4	<u>1,239</u>
5	<u>1,234</u>
6	<u>1,229</u>
7	<u>1,101</u>
8	<u>1,248</u>
9	<u>1,246</u>
10	<u>1,244</u>
11	<u>1,244</u>
12	<u>1,247</u>
13	<u>1,246</u>
14	<u>1,246</u>
15	<u>1,246</u>
16	<u>1,230</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1,215</u>
18	<u>1,246</u>
19	<u>1,244</u>
20	<u>1,241</u>
21	<u>1,242</u>
22	<u>1,246</u>
23	<u>1,247</u>
24	<u>1,244</u>
25	<u>1,246</u>
26	<u>1,245</u>
27	<u>1,243</u>
28	<u>1,246</u>
29	<u>1,245</u>
30	<u>1,245</u>
31	<u>1,244</u>

REFUELING INFORMATION

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 02/13/89
COMPLETED BY S. G. Borst
TELEPHONE (602) 371-4092

1. Scheduled date for next refueling shutdown.
09/15/89
2. Scheduled date for restart following refueling.
11/12/89
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.
07/89
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.
To be determined
6. The number of fuel assemblies
 - a) In the core. 241
 - b) In the spent fuel storage pool. 108
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.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>02/13/89</u>
COMPLETED BY	<u>S. G. Borst</u>
TELEPHONE	<u>(602) 371-4092</u>

JANUARY 1989

01/01	0000	Unit in Mode 1 - Reactor Power 100%.
01/07	0100	Reactor power reduced to 75% to support surveillance testing.
01/07	1600	Reactor power is at 100%.
01/16	2233	Commenced boration due to D.C. electrical system investigation.
01/17	0400	Reactor power at 100%.
01/31	2400	Reactor power at 100%.

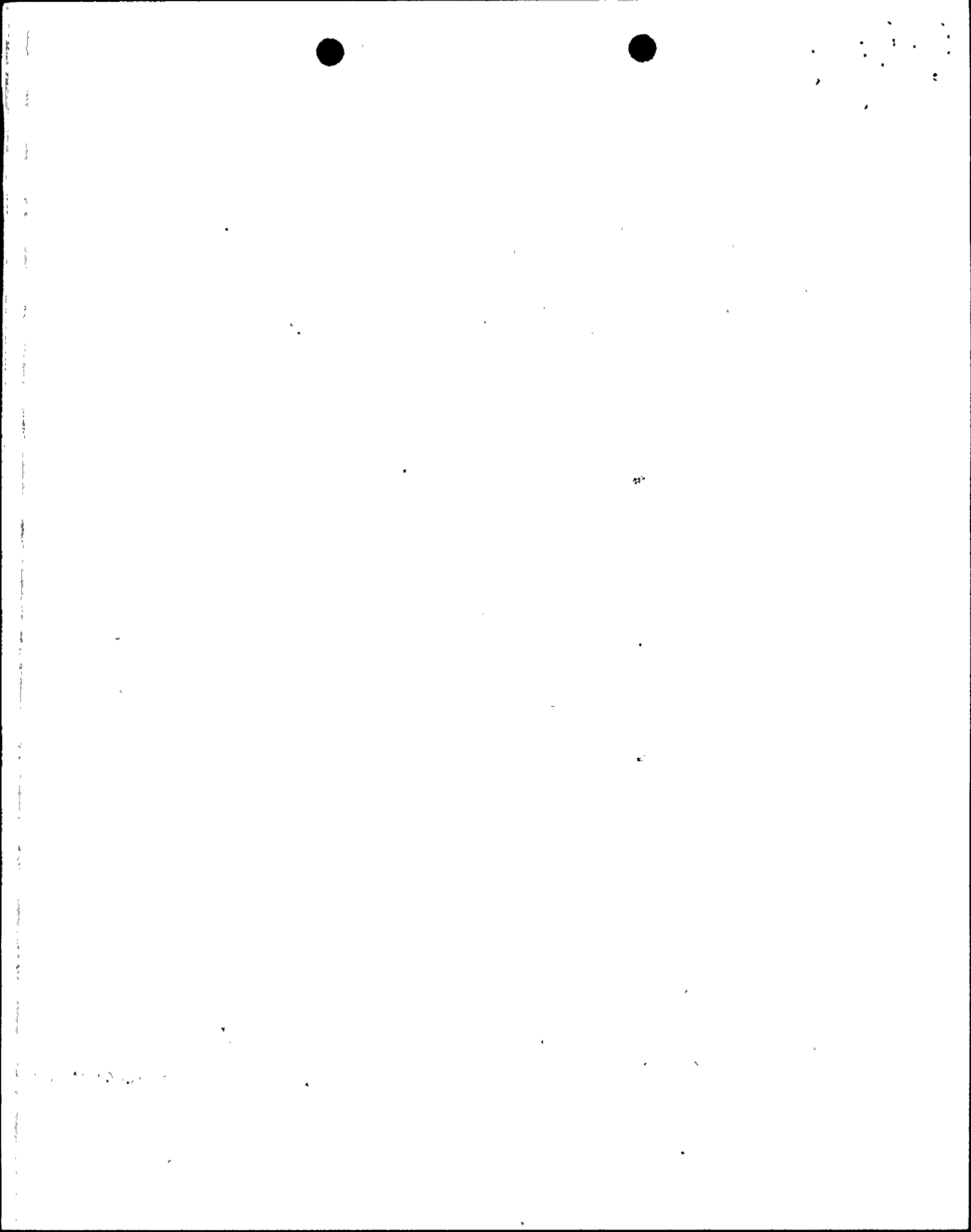
SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 02/13/89
COMPLETED BY S. G. Borst
TELEPHONE (602) 371-4092

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
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No reactor shutdowns or significant power reductions occurred during the month.

1	2	3	4	5
F-Forced S-Scheduled	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)	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)	Exhibit F-Instructions for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)	Exhibit H-Same Source



NRC MONTHLY OPERATING REPORT

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>02/13/89</u>
COMPLETED BY	<u>S. G. Borst</u>
TELEPHONE	<u>(602) 371-4092</u>

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: January 1989
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: 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	<u>744.0</u>	<u>744.0</u>	<u>9,360.0</u>
12. Number of Hours Reactor Was Critical	<u>385.1</u>	<u>385.1</u>	<u>8,586.8</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>374.0</u>	<u>374.0</u>	<u>8,552.0</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,393,430.0</u>	<u>1,393,430.0</u>	<u>31,706,168.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>469,080.0</u>	<u>469,080.0</u>	<u>11,116,280.0</u>
18. Net Electrical Energy Generated (MWH)	<u>434,189.0</u>	<u>434,189.0</u>	<u>10,469,664.0</u>
19. Unit Service Factor	<u>50.3%</u>	<u>50.3%</u>	<u>91.4%</u>
20. Unit Availability Factor	<u>50.3%</u>	<u>50.3%</u>	<u>91.4%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>47.8%</u>	<u>47.8%</u>	<u>91.6%</u>
22. Unit Capacity Factor (Using DER Net)	<u>46.0%</u>	<u>46.0%</u>	<u>88.1%</u>
23. Unit Forced Outage Rate	<u>49.7%</u>	<u>49.7%</u>	<u>8.7%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Refueling Outage - 03/04/89 - 75 Days</u>			

25. If Shutdown At End of Report Period, Estimated Date of Startup:
N/A

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

Forecast	Achieved
<u>07/87</u>	<u>10/25/87</u>
<u>07/87</u>	<u>11/28/87</u>
<u>09/87</u>	<u>01/08/88</u>

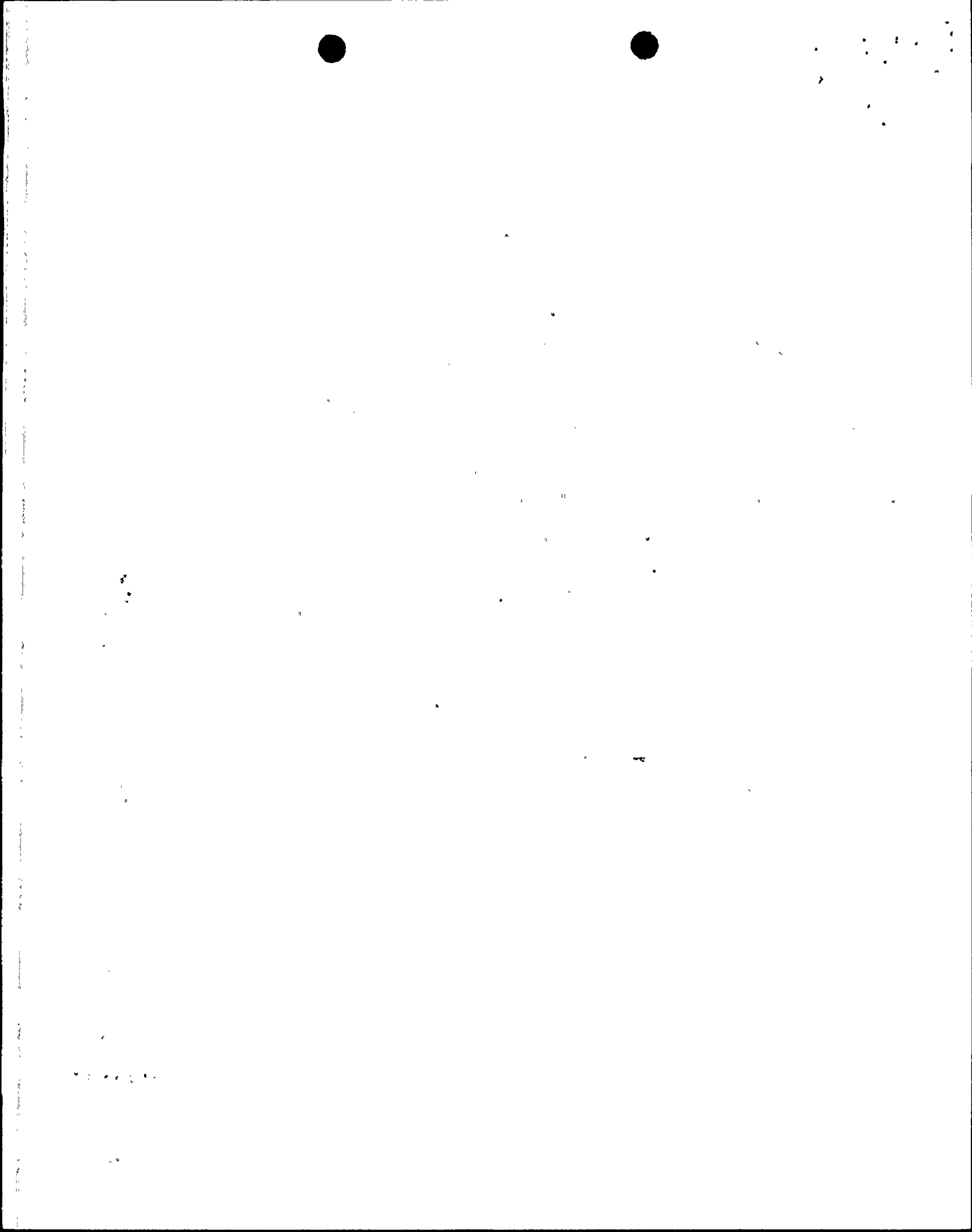
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 02/13/89
COMPLETED BY S. G. Borst
TELEPHONE (602) 371-4092

MONTH: JANUARY 1989

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1,260</u>
2	<u>1,258</u>
3	<u>1,255</u>
4	<u>1,252</u>
5	<u>1,252</u>
6	<u>183</u>
7	<u>0</u>
8	<u>0</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>21</u>
22	<u>747</u>
23	<u>1,189</u>
24	<u>1,264</u>
25	<u>1,261</u>
26	<u>1,196</u>
27	<u>1,200</u>
28	<u>1,264</u>
29	<u>1,266</u>
30	<u>1,262</u>
31	<u>1,264</u>



REFUELING INFORMATION

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>02/13/89</u>
COMPLETED BY	<u>S. G. Borst</u>
TELEPHONE	<u>(602) 371-4092</u>

1. Scheduled date for next refueling shutdown.

03/04/89

2. Scheduled date for restart following refueling.

05/17/89

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

Yes, these are expected to include the following: 2.1.1.1, 3/4 1.1.2, 3/4 1.1.3, 3/4 1.3.1, 3/4 1.3.6, 3/4 2.1, 3/4 2.3, 3/4 2.4, 3/4 2.5, 3/4 2.8, 3/4 3.1, 3/4 3.2.

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

Submitted on 12/14/88

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.

The fuel vendor for the next reload will be Combustion Engineering.

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.

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>02/13/89</u>
COMPLETED BY	<u>S. G. Borst</u>
TELEPHONE	<u>(602) 371-4092</u>

JANUARY 1989

01/01	0000	Reactor power is at 100%.
01/06	0540	Main turbine tripped due to Diesel Generator problems.
01/06	0638	Reactor tripped.
01/21	0530	Reactor critical.
01/21	1045	Entered Mode 1
01/21	1538	Turbine synchronized to grid.
01/23	1427	Reactor at 100% power.
01/26	1207	Reactor power reduced for azimuthal tilt control.
01/27	1457	Reactor power at approximately 100%.
01/31	2400	Reactor power at 100%.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-530
 UNIT NAME PVNGS-3
 DATE 02/13/89
 COMPLETED BY S. G. Borst
 TELEPHONE (602) 371-4092

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
89.01	01/06	F	379	A	1	89-004	EK	DG	

During routine testing of the "A" EDG on January 4, 1989, the exhaust rocker arm for the 8L cylinder failed resulting in an EDG trip. The remaining rocker arms on the "A" EDG were inspected and another crack was identified on the exhaust rocker arm for the 9R cylinder.

The rocker arms for the remaining Palo Verde Units 1, 2, and 3-EDG's have been inspected and no other deficiencies were noted. Long-term corrective action will be developed in association with the original equipment manufacturer (Cooper-Bessemer).

1	2	3	4
F-Forced S-Scheduled	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)	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)	Exhibit F-Instructions for Preparation of the 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

254-00093-JGH/SGB

February 15, 1989

Docket Nos. STN 50-528/529/530

Document Control Desk
U. S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2 and 3
Monthly Operating Reports for January 1989
File: 88-024-404/88-056-026

Attached are the Monthly Operating Reports for January 1989 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. S. G. Borst, at (602) 371-4092.

Very truly yours,

J. G. Haynes
Vice President
Nuclear Production

JGH/SGB/dlm
Attachments

cc: M. J. Davis (all w/attachments)
J. B. Martin
T. J. Polich
J. A. Amenta
INPO Records Center

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