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Arizona Public Service Company

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

417-00227-BSE/FHD May 13, 1994

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Mail Station P1-37 Washington, DC 20555

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 April 1994

File: 94-024-404: 94-056-026

Enclosed are the Monthly Operating Reports for April 1994, 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 me at (602) 340-4068.

Sincerely,

Frad Echlung

BSE/FHD/gez Enclosures

CC:

L. J. Callan

(all w/enclosures)

K. E. Perkins

A. H. Gutterman

NRC Senior Resident Inspector

INPO Records Center Utility Data Institute

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NRC MONTHLY OPERATING REPORT

DOCKET NO.
UNIT NAME
DATE
COMPLETED BY
TELEPHONE

50-528 PVNGS-1 05/10/94 B. S. Ecklund (602) 340-4068

OPERATING STATUS

| 1. | Unit Name: _ | Palo Verde Nuclear | Generating | Station, Unit 1 | |
|----|---------------|--------------------|------------|-----------------|---|
| 2. | Reporting Per | riod: April 1994 | | | _ |
| 3. | Licensed The | rmal 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

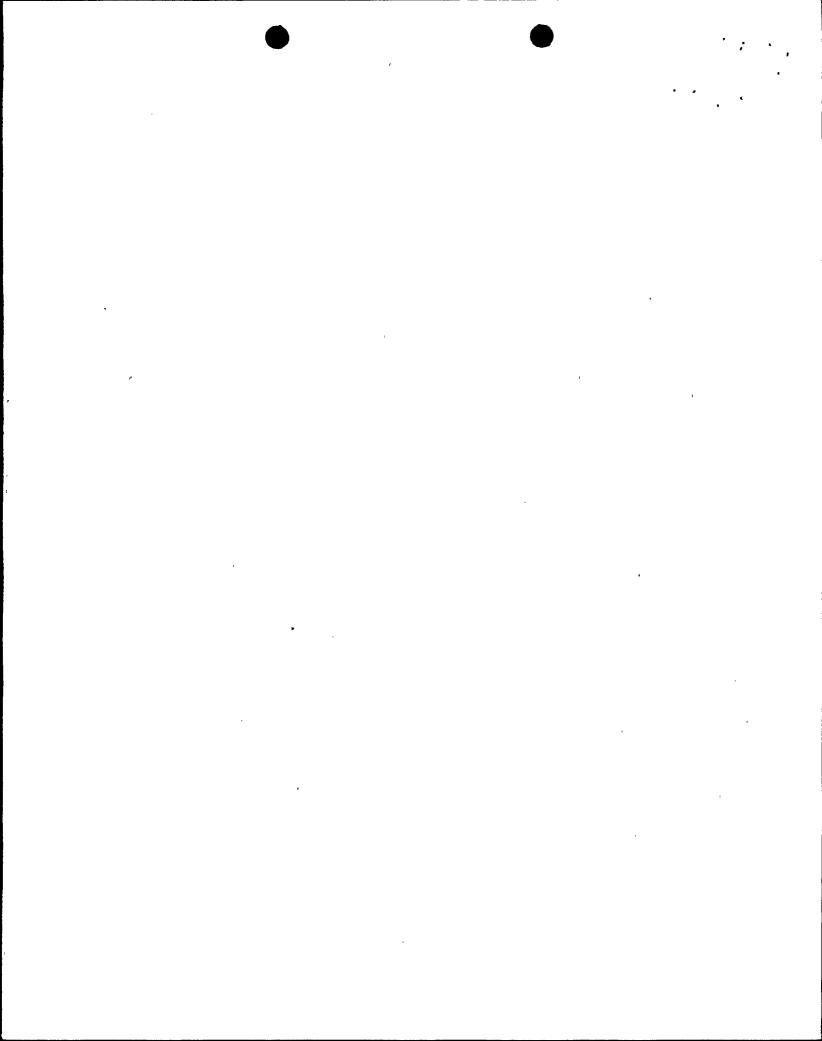
10. Reasons For Restrictions, If Any: N/A

| | Unit 1 Generating Statistics | This Month | Yr. to Date | Cumulative |
|-----|---|------------|-------------|-------------|
| 11. | Hours in Reporting Period | 720 | 2,880 | 72,360 |
| 12. | Hours Reactor was Critical | 720.0 | 2,880.0 | 44,837.4 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator was On-Line | 720.0 | 2,880.0 | 43,879.9 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,342,627 | 9,312,551 | 158,343,099 |
| 17. | Gross Electrical Energy Generated (MWH) | 822,600 | 3,272,400 | 54,927,000 |
| 18. | Net Electrical Energy Generated (MWH) | 770,432 | 3,065,168 | 51,523,529 |
| 19. | Unit Service Factor (%) | 100.0% | 100.0% | 60.6% |
| 20. | Unit Availability Factor (%) | 100.0% | 100.0% | 60.6% |
| 21. | Unit Capacity Factor (Using MDC Net) | 87.6% | 87.2% | 58.3% |
| 22. | Unit Capacity Factor (Using DER Net) | 84.3% | 83.8% | 56.1% |
| 23. | Unit Forced Outage Rate (%) | 0.0% | 0.0% | 14.9% |

| 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 05/85
INITIAL ELECTRICITY 06/85
COMMERCIAL OPERATION 11/85

05/25/85 06/10/85 01/28/86



AVERAGE DAILY UNIT POWER LEVEL

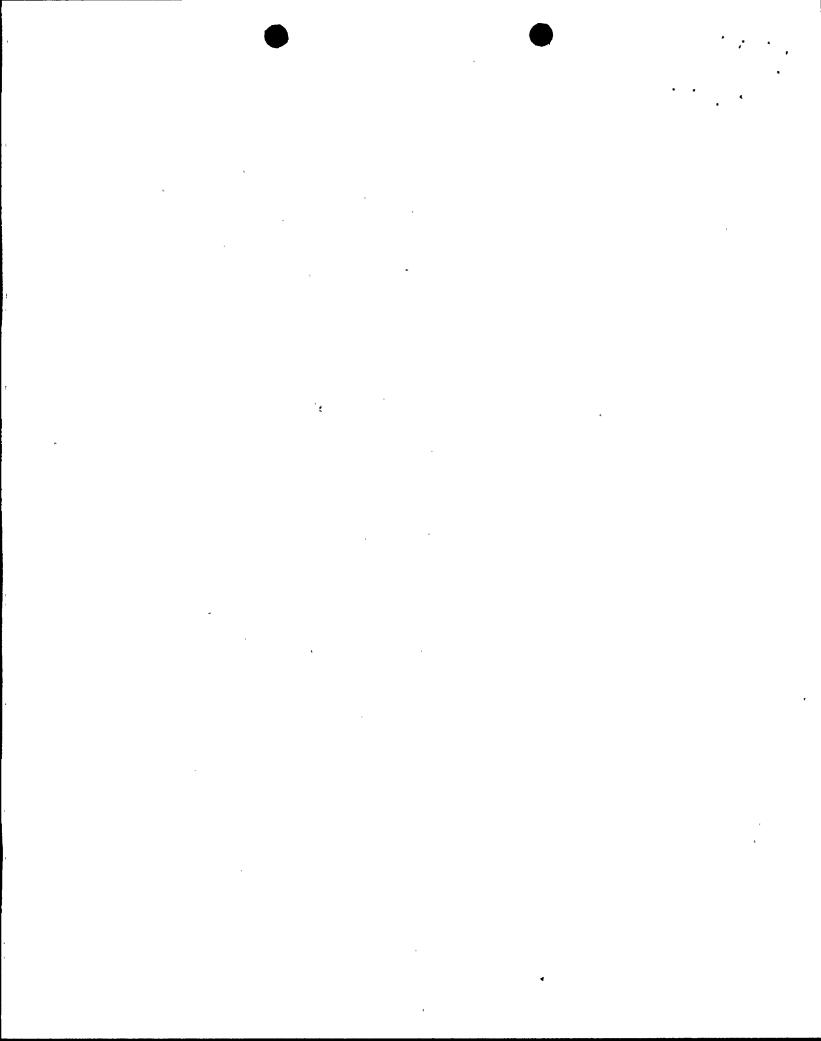
DOCKET NO. UNIT NAME DATE

TELEPHONE

50-528 PVNGS-1 05/10/94 COMPLETED BY B. S. Ecklund (602) 340-4068

MONTH: April 1994

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|-----|---------------------------|
| 1 | 1076 | 17 | 1079 |
| , 2 | 1077 | 18 | 1080 |
| 3 | 1079 | 19 | 1080 |
| 4 | 1079 | 20 | 1079 |
| 5 | 1082 | 21 | 1077 |
| 6 | 1083 | 22 | 1074 |
| 7 | 1082 | 23 | 1078 |
| 8 | 1082 | 24 | 1081 |
| 9 | 1083 | 25 | 1080 |
| 10 | 942 | 26 | 1080 |
| 11 | 1068 | 27 | 1081 |
| 12 | 1081 | 28 | 1082 |
| 13 | 1082 | 29 | 1081 |
| 14 | 1079 | 30 | 1078 |
| 15 | 1079 | 31 | |
| 16 | 1078 | | |



REFUELING INFORMATION

DOCKET NO.

TELEPHONE

COMPLETED BY

UNIT NAME

DATE

50-528

PVNGS-1

05/10/94

B. S. Ecklund

(602) 340-4068

1. Scheduled date for next refueling shutdown. The 5th refueling outage is tentatively scheduled for 04/02/95. 2. Scheduled date for restart following refueling. 06/21/95. Will refueling or resumption of operation thereafter require a Technical Specification change or other 3. license amendment? No. Scheduled date for submitting proposed licensing action and supporting information. 4. N/A. Important Licensing considerations associated with refueling, e.g., new or different fuel design or supplier, 5. unreviewed design or performance analysis methods, significant changes in fuel design, and new operating procedures. N/A. The number of fuel assemblies. 6. a) In the core. 241 b) In the spent fuel storage pool. ___368_ 7. Licensed spent fuel storage capacity. ___1329_ Intended change in spent fuel storage capacity. None Projected date of last refueling that can be discharged to spent fuel storage pool assuming present 8. 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 | PVNGS-1 |
| DATE | 05/10/94 |
| COMPLETED BY | B. S. Ecklund |
| TELEPHONE | (602) 340-406 |

| <u>April 1994</u> | | |
|-------------------|------|---|
| 04/01 | 0000 | Unit began the month in Mode 1, 86% RX power. |
| 04/10 | 1203 | Commenced plant downpower due to a control rod slip (CEA 36). COLSS declared inoperable. |
| 04/10 | 1249 | Stopped power decrease at 62%. |
| 04/10 | 1810 | Commenced RX power increase to 86% from 62% at 3% per hour following restoration of CEA 36. |
| 04/11 | 0355 | Stabilized RX power at 86%. |
| 04/30 | 2400 | Ended the month in Mode 1, 86% RX power. |

SHUTDOWNS AND POWER REDUCTIONS **April 1994**

DOCKET NO UNIT NAME DATE COMPLETED BY

50-528 **PVNGS-1** 05/10/94 B. S. Ecklund

TELEPHONE

(602)340-4068

| 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 | _ |
|-------|----------|-------------------|-----------------------------|---------------------|--|---------|-----------------------------|--------------------------------|---|---|
| 94-02 | 04/10/94 | F | N/A | Α | 5 | N/A | N/A | N/A | Reduction of RX power to 62% due to a control rod slip. | - |

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

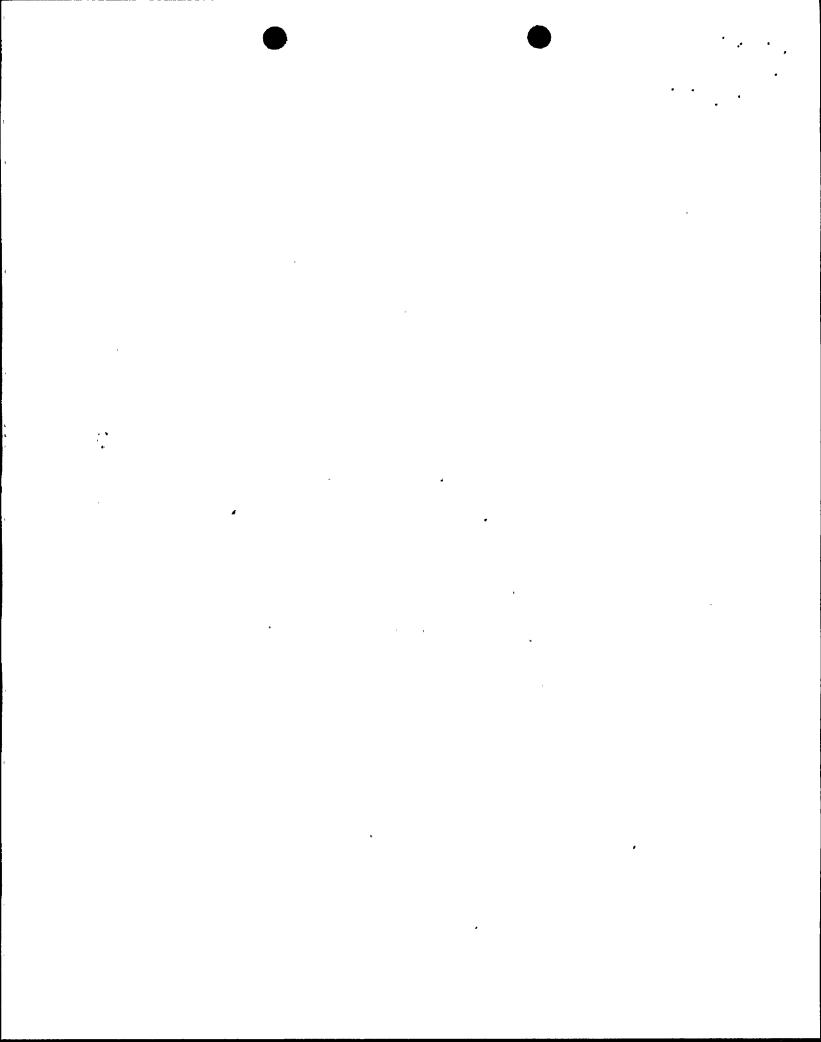
5-Reduction of 20% or Greater in the

Past 24 Hours

9-Other-(Explain)

⁴Exhibit F - Instructions for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG0161)

⁵Exhibit H-Same Source



NRC MONTHLY OPERATING REPORT

DOCKET NO. UNIT NAME DATE COMPLETED BY . B. S. Ecklund TELEPHONE

50-529 **PVNGS-2** 05/10/94 (602) 340-4068

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2

2. Reporting Period: **April 1994**

Licensed Thermal Power (MWt): 3800 3. 4. Nameplate Rating (Gross MWe): 1403

Design Electrical Rating (Net MWe): 5. 1270

Maximum Dependable Capacity (Gross MWe): 6. 1303

7. Maximum Dependable Capacity (Net MWe): 1221

If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7) 8. Since Last Report, Give Reasons: N/A

9. Power Level to Which Restricted, If Any (Net MWe): None

Reasons For Restrictions, If Any: N/A 10.

| | Unit 2 Generating Statistics | This Month | Yr. to Date | Cumulative |
|------------|---|------------|-------------|-------------|
| 11. | Hours in Reporting Period | 720 | 2,880 | 66,744 |
| 12. | Hours Reactor was Critical | 720.0 | 1,120.6 | 45,669.1 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator was On-Line | 720.0 | 1,075.7 | 44,755.6 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,333,826 | 3,280,459 | 163,114,704 |
| 17. | Gross Electrical Energy Generated (MWH) | 821,400 | 1,142,300 | 56,805,270 |
| 18. | Net Electrical Energy Generated (MWH) | 765,969 | 1,044,173 | 53,164,207 |
| 19. | Unit Service Factor (%) | 100.0% | 37.4% | 67.1% |
| 20. | Unit Availability Factor (%) | 100.0% | 37.4% | 67.1% |
| 21. | Unit Capacity Factor (Using MDC Net) | 87.1% | 29.7% | 65.2% |
| 22. | Unit Capacity Factor (Using DER Net) | 83.8% | 28.5% | 62.7% |
| 23. | Unit Forced Outage Rate (%) | 0.0% | 2.7% | 6.0% |

Mid-cycle outage Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): 24. scheduled to begin 9/17/94 with a 40 day duration. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A 25. **Achieved** Forecast 04/18/86 03/86 INITIAL CRITICALITY

INITIAL ELECTRICITY COMMERCIAL OPERATION

05/20/86 06/86 11/86 09/19/86

AVERAGE DAILY UNIT POWER LEVEL

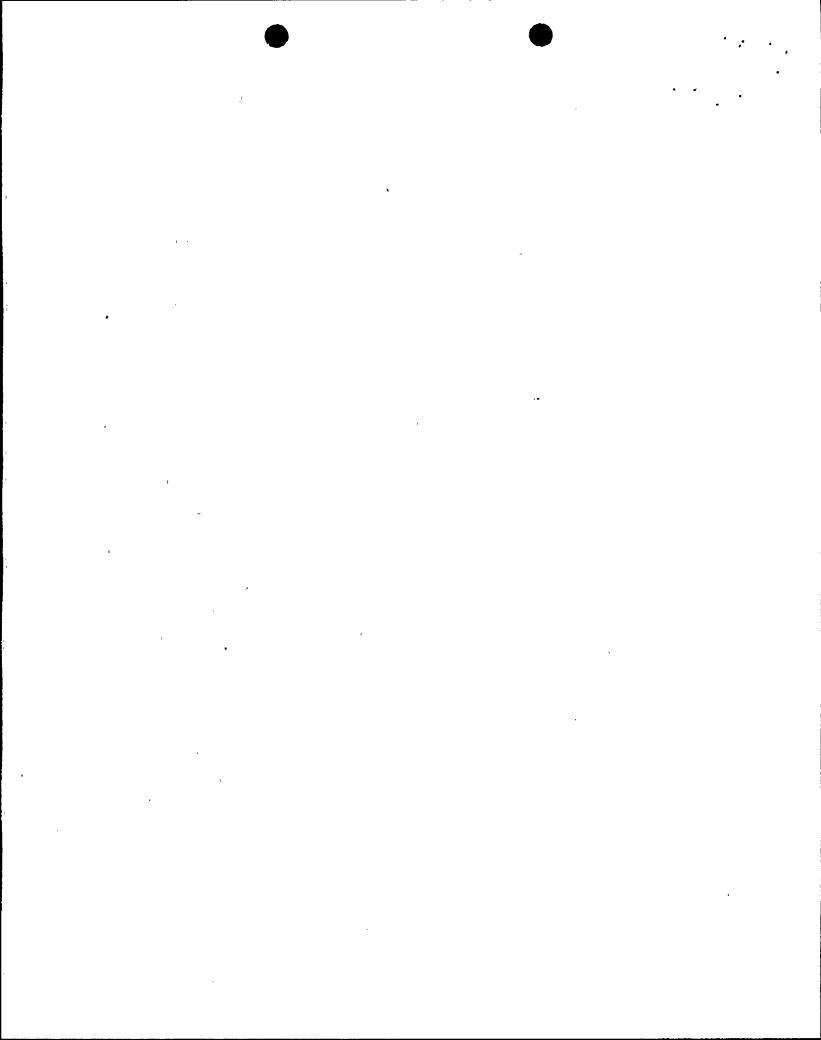
DOCKET NO. UNIT NAME DATE COMPLETED BY

TELEPHONE

50-529 PVNGS-2 05/10/94 B. S. Ecklund (602) 340-4068

MONTH: April 1994

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|-----------------|---------------------------|
| 1 | 1076 | 17 | 1073 |
| 2 | 1072 | 18 | 1075 |
| 3 | 1072 | 19 | 1074 |
| 4 | 1075 | 20 | 1072 |
| 5 | 1076 | 21 | 1069 |
| 6, | 1074 | 22 | 1071 |
| 7 | 1071 | 23 | 1079 |
| 8 | 1069 | 24 | 1081 |
| 9 | 1075 | 25 | 1080 |
| 10 | 1074 | 26 | 1080 |
| 11 | , 1071 | 27 | 1080 |
| 12 | 1075 | 28 | 1078 |
| 13 | 1077 | 29 | 1077 |
| 14 | 1076 | 30 | 894 |
| 15 | 1075 | ["] 31 | |
| 16 | 1072 | _ | |



REFUELING INFORMATION

| • | | DOCKET NO. UNIT NAME DATE COMPLETED BY TELEPHONE | 50-529 PVNGS-2 05/10/94 B. S. Ecklund (602) 340-4068 |
|----|---|--|--|
| 1. | Scheduled date for next refueling shutdown. | | |
| | The 5th refueling outage is scheduled for 02/01/95. | | |
| 2. | Scheduled date for restart following refueling. | | |
| | 04/22/95. | | |
| 3. | Will refueling or resumption of operation thereafter require a Tech license amendment? | nnical Specification | n change or other |
| | A change <u>may</u> be required to Technical Specification 3.9.6 to raise the o new fuel assembly modification. Also, Technical Specification Section 6.9. Flow Distribution methodology. | | |
| 4. | Scheduled date for submitting proposed licensing action and support | ing information. | |
| | 10/27/94. | | |
| 5. | Important Licensing considerations associated with refueling, e.g., neurreviewed design or performance analysis methods, significant operating procedures. | | |
| | The fuel assembly will consist of a denser fuel pellet, Erbium burnable a temperature drop of 10° F is currently planned. | absorber and guard | ian grid. A primary |
| 6. | The number of fuel assemblies. | | |
| | a) In the core241 b) In the spent fuel storage pool384 | | |
| 7. | Licensed spent fuel storage capacity. <u>1329</u> | | |
| | Intended change in spent fuel storage capacity. None | | |
| 8. | Projected date of last refueling that can be discharged to spent capacity. | fuel storage pool | assuming present |
| | 2005 (18 Month reloads and full core discharge capability). | | |

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. UNIT NAME DATE COMPLETED BY TELEPHONE 50-529 PVNGS-2 05/10/94 B. S. Ecklund (602) 340-4068

<u> April 1994</u>

| 04/01 | 0000 | Unit began the month in Mode 1, 86% RX power. |
|-------|------|--|
| 04/30 | 0600 | Commenced RX power reduction for SG chemical hideout test. |
| 04/30 | 1030 | Stabilized RX power at 51%. |
| 04/30 | 1335 | Commenced increasing RX power to 85%. |
| 04/30 | 1802 | Stabilized RX power at 86%. |
| 04/30 | 2400 | Ended the month in Mode 1, 86% RX power. |

SHUTDOWNS AND POWER REDUCTIONS April 1994

DOCKET NO UNIT NAME DATE

50-529 PVNGS-2 05/10/94

COMPLETED BY TELEPHONE

B. S. Ecklund (602)340-4068

| 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 | |
|-------|----------|-------------------|-----------------------------|---------------------|--|---------|-----------------------------|--------------------------------|---|--|
| 94-03 | 04/30/94 | F | N/A | В | 5 | N/A | N/A | N/A | RX power reduction for SG chemical hideout test. | |

¹F-Forced S-Scheduled ²Reason:

A-Equipment Failure(Explain)
B-Maintenance or Test

D-Maintenance

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 (NUREG0161)

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO.
UNIT NAME
DATE
COMPLETED BY
TELEPHONE

50-530 PVNGS-3 05/10/94 B. S. Ecklund (602) 340-4068

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3

2. Reporting Period: April 1994

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

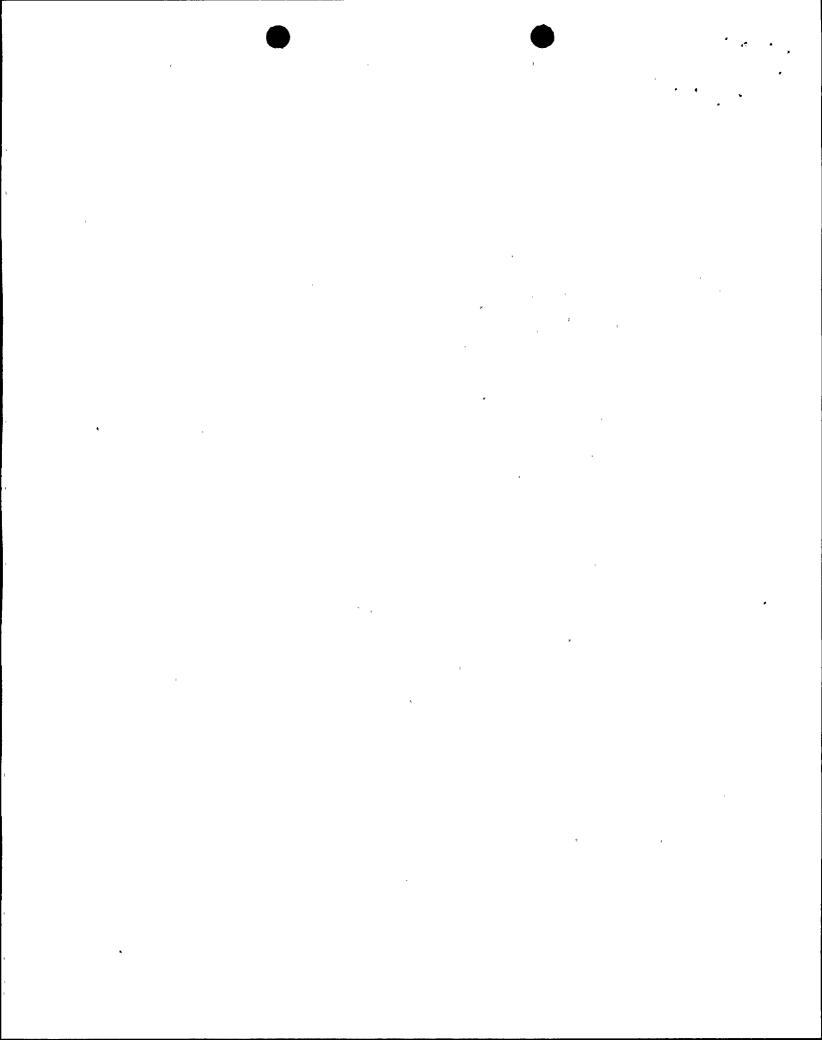
| | Unit 3 Generating Statistics | This Month | Yr. to Date | Cumulative |
|-----|---|------------|-------------|-------------|
| 11. | Hours in Reporting Period | 720 | 2,880 | 55,320 |
| 12. | Hours Reactor was Critical | 0.0 | 1,848.6 | 40,864.5 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator was On-Line | 0.0 | 1,848.6 | 40,272.7 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 0 | 5,995,571 | 146,666,831 |
| 17. | Gross Electrical Energy Generated (MWH) | 0 | 2,120,500 | 51,342,400 |
| 18. | Net Electrical Energy Generated (MWH) | 0 | 1,976,048 | 48,274,269 |
| 19. | Unit:Service Factor:(%) | 0.0% | 64.2% | 72.8% |
| 20. | Unit Availability Factor (%) | 0.0% | 64.2% | 72.8% |
| 21. | Unit Capacity Factor (Using MDC Net) | 0.0% | 56.2% | 71.5% |
| 22. | Unit Capacity Factor (Using DER Net) | 0.0% | 54.0% | 68.7% |
| 23. | Unit Forced Outage Rate (%) | 0.0% | 0.0% | 6.6% |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each):

March 19, 1994. 80 days duration.

4th Refueling outage began

25. If Shutdown At End of Report Period, Estimated Date of Start-up: 06/07/94



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. UNIT NAME DATE COMPLETED BY TELEPHONE 50-530 PVNGS-3 05/10/94 B. S. Ecklund (602) 340-4068

MONTH: April 1994

| 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 | |
| 16 | 0 | | |

REFUELING INFORMATION

DOCKET NO. UNIT NAME 50-530 PVNGS-3

| | • | DATE COMPLETED BY TELEPHONE | 05/10/94 B. S. Ecklund (602) 340-4068 |
|-----------|---|---|---|
| 1. | Scheduled date for next refueling shutdown. | | |
| | 03/19/94, 4th refueling. | | |
| 2. | Scheduled date for restart following refueling. | | |
| | 06/07/94. | | |
| 3. | Will refueling or resumption of operation thereafter require a Tech license amendment? | nnical Specification | n change or othe |
| | At present, four Tech. Spec. changes are in process. One for increasing U235 in fuel rods to 4.30 ^W /o. The other is to change the DNBR setpoint lir Tech. Spec. changes, and will be implemented on a Unit by Unit basis, beg | nit from 1.24 to 1.30 | |
| | Also, there are two other Tech. Spec. changes that will allow U3C5 to or generator issues. | perate at 100% pow | er due to the steam |
| 4. | Scheduled date for submitting proposed licensing action and support | ting information. | |
| | The fuel enrichment change was submitted in October 1993 and the Di January 1994. | NBR setpoint chang | je was submitted ir |
| 5. | Important Licensing considerations associated with refueling, e.g., no unreviewed design or performance analysis methods, significant operating procedures. | | |
| | U3C5 will incorporate a new higher maximum enrichment level of 4.30 ^W /o burnable absorber, Erbium. | U235 and will also u | utilize a new integra |
| | The NRC granted a license amendment (No. 35) which allows the use of 80 based alloys (other than Zircaloy-4) in two fuel assemblies during Un performance evaluation. Date of issuance was July 20, 1992. | 0 fuel rods clad with it 3 Cycles 4, 5, a | advanced zirconium and 6 for in-reactor |
| 6. | The number of fuel assemblies. | | |
| | a) In the core149 b) In the spent fuel storage pool462 | | |
| 7. | Licensed spent fuel storage capacity. <u>1329</u> | | |
| | 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
 05/10/94

 COMPLETED BY TELEPHONE
 B. S. Ecklund (602) 340-4068

| April | 1994 |
|--------------|------|
| | |

| 04/01 | 0000 | Unit began the month in Mode 6, refueling outage in progress and fuel-off load in progress. |
|-------|------|---|
| 04/02 | 0328 | Core off-load complete, exited Mode 6. |
| 04/30 | 0545 | Commenced core re-load, entered Mode 6. |
| 04/30 | 2400 | Unit ended the month in Mode 6, refueling outage in progress and fuel re-load continuing. |

SHUTDOWNS AND POWER REDUCTIONS **April 1994**

DOCKET NO UNIT NAME DATE **COMPLETED BY**

50-530 **PVNGS-3** 05/10/94 B. S. Ecklund

TELEPHONE

(602)340-4068

| 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 | |
|-------|----------|-------------------|-----------------------------|---------------------|--|---------|-----------------------------|--------------------------------|---|--|
| 94-01 | 03/19/94 | S | 720.0 | С | 2 | N/A | N/A | N/A | Continuation of 4th refueling outage from previous month. | |

| ¹ F-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 (NUREG0161)

⁵Exhibit H-Same Source