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RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: ~~Monthly operating~~ repts for Jun 1991 for PVNGS Units 1,2 & 3.W/910712 ltr.

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RIDS/ADDS

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

JAMES M. LEVINE
VICE PRESIDENT
NUCLEAR PRODUCTION

254-01611-JML/KAC
July 12, 1991

Docket Nos. STN 50-528/529/530

Document Control Desk
U. S. Nuclear Regulatory Commission
Mail Station P1-37
Washington, D.C. 20555

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Monthly Operating Reports for June 1991
File: 91-024-404

Attached are the Monthly Operating Reports for June 1991, 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. Kent A. Chavet, at (602) 340-4718.

Very truly yours,

James M Levine

JML/KAC/kac
Attachment

cc: J. B. Martin (all w/attachment)
D. H. Coe
A. C. Gehr
A. H. Gutterman
INPO Records Center
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1/1

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: June 1991
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 | 47,520 |
| 12. | Number of Hours Reactor Was Critical | 720.0 | 3,501.5 | 24,961.7 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator On-Line | 720.0 | 3,492.9 | 24,246.5 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,725,393 | 13,184,607 | 88,578,708 |
| 17. | Gross Electrical Energy Generated (MWH) | 946,400 | 4,599,300 | 30,771,900 |
| 18. | Net Electrical Energy Generated (MWH) | 894,536 | 4,334,226 | 28,846,878 |
| 19. | Unit Service Factor | 100.0% | 80.4% | 51.0% |
| 20. | Unit Availability Factor | 100.0% | 80.4% | 51.0% |
| 21. | Unit Capacity Factor (Using MDC Net) | 101.8% | 81.7% | 49.7% |
| 22. | Unit Capacity Factor (Using DER Net) | 97.8% | 78.6% | 47.8% |
| 23. | Unit Forced Outage Rate | 0.0% | 0.0% | 22.3 % |

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 | 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 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

MONTH: June 1991

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|---|---|---|---|
| 1 | 1248 | 17 | 1247 |
| 2 | 1249 | 18 | 1246 |
| 3 | 1248 | 19 | 1246 |
| 4 | 1246 | 20 | 1247 |
| 5 | 1248 | 21 | 1247 |
| 6 | 1248 | 22 | 1248 |
| 7 | 1246 | 23 | 1248 |
| 8 | 1247 | 24 | 1247 |
| 9 | 1249 | 25 | 1247 |
| 10 | 1249 | 26 | 1116 |
| 11 | 1247 | 27 | 1245 |
| 12 | 1246 | 28 | 1245 |
| 13 | 1246 | 29 | 1246 |
| 14 | 1246 | 30 | 1245 |
| 15 | 1248 | | |
| 16 | 1246 | | |

REFUELING INFORMATION

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

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?

   The need for a Technical Specification change or other license amendment has not yet been determined.

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

   N/A

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.

   U1C4 is typical of PVNGS reload cycles.

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 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

June 1991

| | | |
|---|---|---|
| 06/01 | 00:00 | Unit began the month in Mode 1, 100% RX power. |
| 06/26 | 01:32 | Commenced RX power reduction to 80% due to the Core Operating Limit Supervisory System (COLSS) being inoperable. |
| 06/26 | 13:25 | RX power back at 100%. |
| 06/30 | 24:00 | Unit ended the month in Mode 1, 100% RX power. |

SHUTDOWNS AND POWER REDUCTIONS
June 1991

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

| 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 Recurrence |
|---|---|---|---|---|---|---|---|---|---|
| 91/02 | 06/26/91 | S | N/A | A | 5 | N/A | N/A | N/A | Power reduction to 80% to the Core Operating Limit Supervisory System being inoperable. |

[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 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: June 1991
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 | 41,904 |
| 12. | Number of Hours Reactor Was Critical | 720.0 | 4,344.0 | 28,971.3 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator On-Line | 720.0 | 4,344.0 | 28,367.4 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,734,422 | 16,452,791 | 104,174,192 |
| 17. | Gross Electrical Energy Generated (MWH) | 952,300 | 5,749,800 | 36,377,370 |
| 18. | Net Electrical Energy Generated (MWH) | 898,162 | 5,428,166 | 34,053,195 |
| 19. | Unit Service Factor | 100.0% | 100.0% | 67.7% |
| 20. | Unit Availability Factor | 100.0% | 100.0% | 67.7% |
| 21. | Unit Capacity Factor (Using MDC Net) | 102.2% | 102.3% | 66.6% |
| 22. | Unit Capacity Factor (Using DER Net) | 98.2% | 98.4% | 64.0% |
| 23. | Unit Forced Outage Rate | 0.0% | 0.0% | 7.2% |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): Refueling outage, October 17, 1991, 70 days
25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

| | 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 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

MONTH: June 1991

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|---|---|---|---|
| 1 | 1248 | 17 | 1246 |
| 2 | 1249 | 18 | 1245 |
| 3 | 1246 | 19 | 1244 |
| 4 | 1247 | 20 | 1242 |
| 5 | 1245 | 21 | 1244 |
| 6 | 1242 | 22 | 1242 |
| 7 | 1243 | 23 | 1244 |
| 8 | 1243 | 24 | 1243 |
| 9 | 1244 | 25 | 1245 |
| 10 | 1244 | 26 | 1245 |
| 11 | 1242 | 27 | 1244 |
| 12 | 1240 | 28 | 1247 |
| 13 | 1237 | 29 | 1238 |
| 14 | 1239 | 30 | 1249 |
| 15 | 1241 | | |
| 16 | 1245 | | |

REFUELING INFORMATION

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

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?

   Preliminary analyses indicate that no proposed Technical Specification change or other license amendment will be required as a result of the next refueling.

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

   08/91

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.

   U2C4 is typical of PVNGS reload cycles.

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 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

June 1991

| | | |
|---|---|---|
| 06/01 | 00:00 | Unit began the month in Mode 1, 100% RX power. |
| 06/30 | 24:00 | Unit ended the month in Mode 1, 100% RX power. |

SHUTDOWNS AND POWER REDUCTIONS
June 1991

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

| 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 Recurrence |
|---|---|---|---|---|---|---|---|---|---|

No Reactor Shutdowns or significant power reductions 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

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: June 1991
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 | 30,480 |
| 12. | Number of Hours Reactor Was Critical | 605.1 | 2,416.4 | 19,996.1 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator On-Line | 570.8 | 2,347.6 | 19,670.8 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 1,861,693 | 8,298,390 | 71,904,617 |
| 17. | Gross Electrical Energy Generated (MWH) | 645,100 | 2,908,700 | 25,217,000 |
| 18. | Net Electrical Energy Generated (MWH) | 597,134 | 2,724,920 | 23,724,395 |
| 19. | Unit Service Factor | 79.3% | 54.0% | 64.5% |
| 20. | Unit Availability Factor | 79.3% | 54.0% | 64.5% |
| 21. | Unit Capacity Factor (Using MDC Net) | 67.9% | 51.4% | 63.7% |
| 22. | Unit Capacity Factor (Using DER Net) | 65.3% | 49.4% | 61.3% |
| 23. | Unit Forced Outage Rate | 20.5%* | 11.0%* | 9.1%* |

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: Unit ended refueling outage on 06/03/91.

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

*Final analysis of the refueling outage is not complete. The forced outage rates may be lower than reported.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

MONTH: June 1991

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|---|---|---|---|
| 1 | 0 | 17 | 1262 |
| 2 | 0 | 18 | 1262 |
| 3 | 4 | 19 | 509 |
| 4 | 115 | 20 | 0 |
| 5 | 345 | 21 | 0 |
| 6 | 781 | 22 | 0 |
| 7 | 836 | 23 | 644 |
| 8 | 844 | 24 | 1258 |
| 9 | 929 | 25 | 1261 |
| 10 | 1230 | 26 | 1254 |
| 11 | 1248 | 27 | 1248 |
| 12 | 1246 | 28 | 1262 |
| 13 | 1257 | 29 | 1262 |
| 14 | 1261 | 30 | 1260 |
| 15 | 1262 | | |
| 16 | 1261 | | |

REFUELING INFORMATION

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

1. Scheduled date for next refueling shutdown.

   Unit 3 was completing the refueling outage at the end of the month. The next refueling outage is scheduled for 09/15/92.

2. Scheduled date for restart following refueling.

   The scheduled restart date for the current refueling outage was 05/26/91. The actual restart date was 06/03/91. The restart date for the next refueling outage is 11/14/92.

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

   The need for a Technical Specification change or other license amendment has not yet been determined.

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

   N/A

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.

   U3C4 is typical of PVNGS reload cycles.

6. The number of fuel assemblies.

   a) In the core. 241
   b) In the spent fuel storage pool. 192

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 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

June 1991

| | | |
|---|---|---|
| 06/01 | 00:00 | Unit began the month in Mode 2, low power physics testing. |
| 06/01 | 07:43 | Entered Mode 3 for CEA troubleshooting and maintenance. |
| 06/02 | 16:38 | Entered Mode 2, continuation of low power physics testing. |
| 06/03 | 01:38 | Entered Mode 1. |
| 06/03 | 11:32 | Synchronized main generator to the grid. Refueling outage ended. |
| 06/03 | 15:54 | Manually tripped turbine/generator for planned overspeed testing and valve tightness testing. |
| 06/03 | 18:11 | Synchronized main generator to the grid, increased power to the 20% testing plateau. |
| 06/05 | 03:29 | Stopped power increase at 36% RX power due to CPC 'C' failure. |
| 06/05 | 19:30 | Commenced RX power ascension to the 70% testing plateau. |
| 06/09 | 12:52 | Commenced RX power ascension to 100% RX power. |
| 06/10 | 12:56 | RX power at 100%. |
| 06/19 | 10:02 | Inadvertent CSAS (Containment Spray Actuation Signal) during performance of surveillance test. |
| 06/19 | 10:04 | RX manually tripped after verification of CSAS. |
| 06/20 | 05:31 | Entered Mode 4. |
| 06/20 | 13:08 | Entered Mode 5 to troubleshoot cause of CSAS. |
| 06/22 | 00:24 | Entered Mode 4. |
| 06/22 | 04:28 | Entered Mode 3. |
| 06/22 | 20:00 | Entered Mode 2. |
| 06/22 | 22:27 | Entered Mode 1. |
| 06/23 | 01:00 | Synchronized generator to the grid. |
| 06/23 | 23:12 | RX power at 100%. |
| 06/30 | 24:00 | Unit ended the month in Mode 1, 100% RX power. |

SHUTDOWNS AND POWER REDUCTIONS
June 1991

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 7/9/91
COMPLETED BY K.A. Chavet
TELEPHONE (602) 340-4718

| 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 Recurrence |
|---|---|---|---|---|---|---|---|---|---|
| 91/03 | 03/16/91 | S | 59.5 | C | 4 | N/A | N/A | N/A | Conclusion of 2nd refueli outage. Outage lasted 1906.6 hours. |
| 91/04 | 06/19/91 | F | 87.4 | A | 2 | N/A | N/A | N/A | Faulty switch caused inadvertent Containment Spray Actuation Signal during surveillance testing. Manually tripped reactor per procedure after verifying containment spray. |

[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