

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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ACCESSION NBR: 9110170130 DOC. DATE: 91/09/30 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

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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Sept 1991 for Palo Verde, Units  
 1, 2 & 3. W/911014 Ltr.

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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

254-01751-JML/KAC  
October 14, 1991

Docket Nos. STN 50-528/529/530

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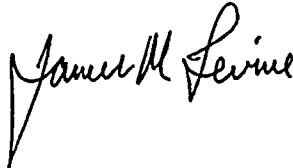
Dear Sirs:

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

Attached are the Monthly Operating Reports for September 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,



JML/KAC/kac  
Attachments

cc: J. B. Martin  
D. H. Coe  
A. C. Gehr  
A. H. Gutterman  
INPO Records Center  
Utility Data Institute

(all w/attachments)

9110170130 910930  
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# NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528  
 UNIT NAME PVNGS-1  
 DATE 10/8/91  
 COMPLETED BY K.A. Chavet  
 TELEPHONE (602) 340-4718

## OPERATING STATUS

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

|     | UNIT 1 GENERATING STATISTICS            | This Month | Yr.-to-Date | Cumulative |
|-----|---|------------|-------------|------------|
| 11. | Hours In Reporting Period               | 720        | 6,552       | 49,728     |
| 12. | Hours Reactor was Critical              | 494.8      | 5,484.3     | 26,944.5   |
| 13. | Reactor Reserve Shutdown Hours          | 0.0        | 0.0         | 0.0        |
| 14. | Hours Generator was On-Line             | 484.4      | 5,465.3     | 26,218.9   |
| 15. | Unit Reserve Shutdown Hours             | 0.0        | 0.0         | 0.0        |
| 16. | Gross Thermal Energy Generated (MWH)    | 1,725,887  | 20,561,246  | 95,955,347 |
| 17. | Gross Electrical Energy Generated (MWH) | 589,900    | 7,135,800   | 33,308,400 |
| 18. | Net Electrical Energy Generated (MWH)   | 549,554    | 6,725,075   | 31,237,727 |
| 19. | Unit Service Factor (%)                 | 67.3%      | 83.4%       | 52.7%      |
| 20. | Unit Availability Factor (%)            | 67.3%      | 83.4%       | 52.7%      |
| 21. | Unit Capacity Factor (Using MDC Net)    | 62.5%      | 84.1%       | 51.4%      |
| 22. | Unit Capacity Factor (Using DER Net)    | 60.1%      | 80.8%       | 49.5%      |
| 23. | Unit Forced Outage Rate (%)             | 19.3%      | 2.1%        | 21.3%      |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): Refueling outage, February 1, 1992, 70 days
25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

|                      |              |                 |
|----------------------|--------------|-----------------|
|                      | Forecast     | Achieved        |
| INITIAL CRITICALITY  | <u>05/85</u> | <u>05/25/85</u> |
| INITIAL ELECTRICITY  | <u>06/85</u> | <u>06/10/85</u> |
| COMMERCIAL OPERATION | <u>11/85</u> | <u>01/28/86</u> |



# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528  
UNIT NAME PVNGS-1  
DATE 10/8/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

MONTH: September 1991

| DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|
| 1   | <u>1235</u>               |
| 2   | <u>1233</u>               |
| 3   | <u>1233</u>               |
| 4   | <u>1235</u>               |
| 5   | <u>1239</u>               |
| 6   | <u>1240</u>               |
| 7   | <u>1239</u>               |
| 8   | <u>1241</u>               |
| 9   | <u>1240</u>               |
| 10  | <u>1239</u>               |
| 11  | <u>1242</u>               |
| 12  | <u>1245</u>               |
| 13  | <u>1243</u>               |
| 14  | <u>858</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>0</u>                  |
| 22  | <u>0</u>                  |
| 23  | <u>0</u>                  |
| 24  | <u>6</u>                  |
| 25  | <u>521</u>                |
| 26  | <u>779</u>                |
| 27  | <u>1156</u>               |
| 28  | <u>1218</u>               |
| 29  | <u>1236</u>               |
| 30  | <u>1236</u>               |



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REFUELING INFORMATION

DOCKET NO. 50-528  
UNIT NAME PVNGS-1  
DATE 10/8/91  
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?  
  
Yes. Figures 3.2-2 and 3.2-2A of the Technical Specifications will require revision to reflect different DNBR margin limits.
4. Scheduled date for submitting proposed licensing action and supporting information.  
12/2/91
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.  
  
The U1C4 reload analysis has been performed by ABB-CE using methodology from Topical Report CENPD-266-P-A, with revisions to biases and uncertainties for both the ROCS-NEM computer code and the net rod worth (N-1) calculation to include more recent measurements in the data base.  
  
A Technical Specification change request has been submitted to the NRC which will allow the use of advanced, zircaloy-based cladding alloys instead of Zircaloy-4 on up to 80 fuel rods in two fuel assemblies.
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         | 10/8/91        |
| COMPLETED BY | K.A. Chavet    |
| TELEPHONE    | (602) 340-4718 |

## September 1991

|       |      |   |
|-------|------|---|
| 09/01 | 0000 | Unit began the month in Mode 1, 100% RX power.  |
| 09/14 | 1501 | CEA slipped during performance of 41ST-1SF01.   |
| 09/14 | 1510 | Commenced power reduction due to COLSS being declared inoperable because of the slipped CEA.  |
| 09/14 | 1722 | Entered Mode 3 when RX tripped on High Steam Generator Level after economizer valve SGN-FV1112 failed open. Also received Main Steam Isolation Signal (MSIS) due to High Steam Generator level. |
| 09/14 | 1730 | Declared NUE due to MSIS.   |
| 09/15 | 0401 | Terminated NUE.   |
| 09/17 | 0351 | Entered Mode 4 to work on pressurizer relief valve. This work was unrelated to the initial cause of the outage.   |
| 09/17 | 2046 | Entered Mode 5.   |
| 09/21 | 1742 | Entered Mode 4.   |
| 09/22 | 0348 | Entered Mode 3.   |
| 09/24 | 0233 | Entered Mode 2.   |
| 09/24 | 0709 | Entered Mode 1.   |
| 09/24 | 1257 | Main generator synchronized to the grid.  |
| 09/24 | 1630 | Plant stabilized at 18% for RWT boron concentration measurement.  |
| 09/25 | 0000 | Commenced power ascension at 3% per hour.   |
| 09/25 | 0730 | RX power ascension stopped at 47% for evaluation of RCS iodine levels.  |
| 09/25 | 1100 | Commenced RX power ascension.   |
| 09/25 | 1830 | RX power stabilized at 65% for boron addition to RWT. Also performed RCS leak rate test, 41ST-1RC02.  |
| 09/26 | 1730 | Commenced RX power ascension to 100% power.   |
| 09/27 | 0620 | Stabilized plant at 98.7% for completion of maintenance on Extraction Drain Pump "B".   |
| 09/28 | 1137 | RX power at 100%.   |
| 09/30 | 2400 | Unit ended the month in Mode 1, 100% RX power.  |



SHUTDOWNS AND POWER REDUCTIONS  
September 1991

DOCKET NO 50-528  
UNIT NAME PVNGS-1  
DATE 10/8/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

| No.   | Date     | Type <sup>1</sup> | Outage<br>Duration<br>Hours | Reason <sup>2</sup> | Method of<br>Shutting<br>Down Reactor <sup>3</sup> | LER No. | System<br>Code <sup>4</sup> | Component<br>Code <sup>5</sup> | Cause and Corrective<br>Action to<br>Prevent Recurrence   |
|-------|----------|-------------------|-----------------------------|---------------------|--|---------|-----------------------------|--------------------------------|---|
| 91/03 | 09/14/91 | F                 | 235.6                       | A                   | 3  | N/A     | N/A                         | N/A                            | COLSS declared inoperable after CEA slipped during surveillance testing. RX tripped on High Steam Generator Level after economizer valve failed open. |

<sup>1</sup>F-Forced  
S-Scheduled

<sup>2</sup>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)

<sup>3</sup>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)

<sup>4</sup>Exhibit F-Instructions for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

<sup>5</sup>Exhibit H-Same Source



# NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-529  
UNIT NAME PVNGS-2  
DATE 10/8/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

## OPERATING STATUS

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

| UNIT 2 GENERATING STATISTICS |   | This Month | Yr -to-Date | Cumulative  |
|------------------------------|---|------------|-------------|-------------|
| 11.                          | Hours In Reporting Period               | 720        | 6,552       | 44,112      |
| 12.                          | Hours Reactor was Critical              | 720.0      | 6,333.5     | 30,960.8    |
| 13.                          | Reactor Reserve Shutdown Hours          | 0.0        | 0.0         | 0           |
| 14.                          | Hours Generator was On-Line             | 720.0      | 6,305.9     | 30,329.3    |
| 15.                          | Unit Reserve Shutdown Hours             | 0.0        | 0.0         | 0           |
| 16.                          | Gross Thermal Energy Generated (MWH)    | 2,731,841  | 23,770,022  | 111,491,423 |
| 17.                          | Gross Electrical Energy Generated (MWH) | 944,200    | 8,272,700   | 38,900,270  |
| 18.                          | Net Electrical Energy Generated (MWH)   | 889,585    | 7,792,668   | 36,417,697  |
| 19.                          | Unit Service Factor (%)                 | 100.0%     | 96.2%       | 68.8%       |
| 20.                          | Unit Availability Factor (%)            | 100.0%     | 96.2%       | 68.8%       |
| 21.                          | Unit Capacity Factor (Using MDC Net)    | 101.2%     | 97.4%       | 67.6%       |
| 22.                          | Unit Capacity Factor (Using DER Net)    | 97.3%      | 93.7%       | 65.0%       |
| 23.                          | Unit Forced Outage Rate (%)             | 0.0%       | 3.8%        | 7.4%        |

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

|                      |              |                 |
|----------------------|--------------|-----------------|
| INITIAL CRITICALITY  | Forecast     | Achieved        |
| INITIAL ELECTRICITY  | <u>03/86</u> | <u>04/18/86</u> |
| COMMERCIAL OPERATION | <u>06/86</u> | <u>05/20/86</u> |
|                      | <u>11/86</u> | <u>09/19/86</u> |





# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529  
UNIT NAME PVNGS-2  
DATE 10/8/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

MONTH: September 1991

| DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|
| 1   | <u>1225</u>               |
| 2   | <u>1227</u>               |
| 3   | <u>1226</u>               |
| 4   | <u>1231</u>               |
| 5   | <u>1228</u>               |
| 6   | <u>1228</u>               |
| 7   | <u>1230</u>               |
| 8   | <u>1234</u>               |
| 9   | <u>1233</u>               |
| 10  | <u>1242</u>               |
| 11  | <u>1245</u>               |
| 12  | <u>1250</u>               |
| 13  | <u>1251</u>               |
| 14  | <u>1250</u>               |
| 15  | <u>1248</u>               |
| 16  | <u>1248</u>               |

| DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|
| 17  | <u>1244</u>               |
| 18  | <u>1239</u>               |
| 19  | <u>1239</u>               |
| 20  | <u>1241</u>               |
| 21  | <u>1238</u>               |
| 22  | <u>1239</u>               |
| 23  | <u>1240</u>               |
| 24  | <u>1238</u>               |
| 25  | <u>1244</u>               |
| 26  | <u>1246</u>               |
| 27  | <u>1244</u>               |
| 28  | <u>1209</u>               |
| 29  | <u>1245</u>               |
| 30  | <u>1248</u>               |



REFUELING INFORMATION

DOCKET NO. 50-529  
UNIT NAME PVNGS-2  
DATE 10/8/91  
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?  
  
No. 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.  
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.  
  
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.   | <u>50-529</u>         |
| UNIT NAME    | <u>PVNGS-2</u>        |
| DATE         | <u>10/8/91</u>        |
| COMPLETED BY | <u>K.A. Chavet</u>    |
| TELEPHONE    | <u>(602) 340-4718</u> |

September 1991

|       |      |  |
|-------|------|--|
| 09/01 | 0000 | Unit began the month in Mode 1, 100% RX power. |
| 09/30 | 2400 | Unit ended the month in Mode 1, 100% RX power. |



SHUTDOWNS AND POWER REDUCTIONS  
September 1991

DOCKET NO 50-529  
UNIT NAME PVNGS-2  
DATE 10/8/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

| No. | Date | Type <sup>1</sup> | Outage<br>Duration<br>Hours | Reason <sup>2</sup> | Method of<br>Shutting<br>Down Reactor <sup>3</sup> | LER No. | System<br>Code <sup>4</sup> | Component<br>Code <sup>5</sup> | Cause and Corrective<br>Action to<br>Prevent Recurrence |
|-----|------|-------------------|-----------------------------|---------------------|--|---------|-----------------------------|--------------------------------|---|
|-----|------|-------------------|-----------------------------|---------------------|--|---------|-----------------------------|--------------------------------|---|

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

<sup>1</sup>F-Forced  
S-Scheduled

<sup>2</sup>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)

<sup>3</sup>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)

<sup>4</sup>Exhibit F-Instructions  
for Preparation of the Data  
Entry Sheets for Licensee  
Event Report (LER) File  
(NUREG 0161)

<sup>5</sup>Exhibit H-Same Source





# NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-530  
 UNIT NAME PVNGS-3  
 DATE 10/8/91  
 COMPLETED BY K.A. Chavet  
 TELEPHONE (602) 340-4718

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: September 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

|     | UNIT 3 GENERATING STATISTICS            | This Month | Yr.-to-Date | Cumulative |
|-----|---|------------|-------------|------------|
| 11. | Hours In Reporting Period               | 720        | 6,552       | 32,688     |
| 12. | Hours Reactor was Critical              | 681.5      | 4,563.2     | 22,142.9   |
| 13. | Reactor Reserve Shutdown Hours          | 0.0        | 0.0         | 0.0        |
| 14. | Hours Generator was On-Line             | 651.8      | 4,464.7     | 21,787.9   |
| 15. | Unit Reserve Shutdown Hours             | 0.0        | 0.0         | 0.0        |
| 16. | Gross Thermal Energy Generated (MWH)    | 2,412,331  | 16,217,368  | 79,823,595 |
| 17. | Gross Electrical Energy Generated (MWH) | 835,500    | 5,664,800   | 27,973,100 |
| 18. | Net Electrical Energy Generated (MWH)   | 783,814    | 5,322,413   | 26,321,888 |
| 19. | Unit Service Factor (%)                 | 90.5%      | 68.1%       | 66.7%      |
| 20. | Unit Availability Factor (%)            | 90.5%      | 68.1%       | 66.7%      |
| 21. | Unit Capacity Factor (Using MDC Net)    | 89.2%      | 66.5%       | 65.9%      |
| 22. | Unit Capacity Factor (Using DER Net)    | 85.7%      | 64.0%       | 63.4%      |
| 23. | Unit Forced Outage Rate (%)             | 9.5%       | 7.0%        | 8.4%       |

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 restarted 9/2/91.

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



# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530  
UNIT NAME PVNGS-3  
DATE 10/8/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

MONTH: September 1991

| DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|
| 1   | <u>0</u>                  |
| 2   | <u>0</u>                  |
| 3   | <u>0</u>                  |
| 4   | <u>761</u>                |
| 5   | <u>1245</u>               |
| 6   | <u>1252</u>               |
| 7   | <u>1147</u>               |
| 8   | <u>1176</u>               |
| 9   | <u>1164</u>               |
| 10  | <u>1088</u>               |
| 11  | <u>1137</u>               |
| 12  | <u>1256</u>               |
| 13  | <u>1258</u>               |
| 14  | <u>1257</u>               |
| 15  | <u>1256</u>               |
| 16  | <u>1256</u>               |

| DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|
| 17  | <u>1255</u>               |
| 18  | <u>1251</u>               |
| 19  | <u>1253</u>               |
| 20  | <u>1254</u>               |
| 21  | <u>1253</u>               |
| 22  | <u>1252</u>               |
| 23  | <u>1253</u>               |
| 24  | <u>1255</u>               |
| 25  | <u>1256</u>               |
| 26  | <u>1256</u>               |
| 27  | <u>1254</u>               |
| 28  | <u>1256</u>               |
| 29  | <u>1257</u>               |
| 30  | <u>1257</u>               |



REFUELING INFORMATION

DOCKET NO. 50-530  
UNIT NAME PVNGS-3  
DATE 10/8/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

1. Scheduled date for next refueling shutdown.  
09/15/92, 3rd refueling
2. Scheduled date for restart following refueling.  
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 10/8/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

## September 1991

|       |      |                                      |
|-------|------|--------------------------------------|
| 09/01 | 0000 | Unit began the month in Mode 3.      |
| 09/02 | 1431 | Entered Mode 2.                      |
| 09/02 | 1733 | Entered Mode 1.                      |
| 09/03 | 2012 | Main generator synchronized to grid. |
| 09/05 | 0001 | RX power at 100%.                    |
| 09/30 | 2400 | Unit ended the month in Mode 1.      |





SHUTDOWNS AND POWER REDUCTIONS  
September 1991

DOCKET NO 50-530  
UNIT NAME PVNGS-3  
DATE 10/8/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

| No.   | Date     | Type <sup>1</sup> | Outage<br>Duration<br>Hours | Reason <sup>2</sup> | Method of<br>Shutting<br>Down Reactor <sup>3</sup> | LER No. | System<br>Code <sup>4</sup> | Component<br>Code <sup>5</sup> | Cause and Corrective<br>Action to<br>Prevent Recurrence  |
|-------|----------|-------------------|-----------------------------|---------------------|--|---------|-----------------------------|--------------------------------|--|
| 91/07 | 08/31/91 | F                 | 68.2                        | A                   | 4  | N/A     | N/A                         | N/A                            | Manual RX/turbine trip from 20% per shutdown procedure. Tech. Spec. LCO 3.8.3.1 (b) applied due to loss of the "C" Inverter. |

<sup>1</sup>F-Forced  
S-Scheduled

<sup>2</sup>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)

<sup>3</sup>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)

<sup>4</sup>Exhibit F-Instructions for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

<sup>5</sup>Exhibit H-Same Source

