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 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Dec 1990 for Palo Verde Nuclear  
 Generating Station, Units 1,2 & 3.W/910114 Dtr.

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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

254-01321-JML/KAC  
January 14, 1991

Docket Nos. STN 50-528/529/530

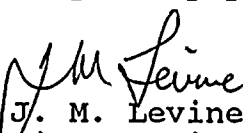
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Subject: Palo Verde Nuclear Generating Station (PVNGS)  
Units 1, 2, and 3  
Monthly Operating Reports for December 1990  
File: 91-024-404

Attached are the Monthly Operating Reports for December 1990, 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. K. A. Chavet, at (602) 340-4718.

Very truly yours,

  
J. M. Levine  
Vice President  
Nuclear Production

JML/KAC  
Attachments

cc: J. B. Martin  
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(all w/attachments)

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# NRC MONTHLY OPERATING REPORT

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

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: December 1990
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	<u>744</u>	<u>8,760</u>	<u>43,176</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>4,198.1</u>	<u>21,460.2</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>3,926.7</u>	<u>20,753.6</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>2,813,104</u>	<u>14,462,880</u>	<u>75,394,101</u>
17. Gross Electrical Energy Generated (MWH)	<u>989,400</u>	<u>5,009,500</u>	<u>26,172,600</u>
18. Net Electrical Energy Generated (MWH)	<u>936,387</u>	<u>4,719,462</u>	<u>24,512,652</u>
19. Unit Service Factor	<u>100.0%</u>	<u>44.8%</u>	<u>48.1%</u>
20. Unit Availability Factor	<u>100.0%</u>	<u>44.8%</u>	<u>48.1%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>103.1%</u>	<u>44.1%</u>	<u>46.5%</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.1%</u>	<u>42.4%</u>	<u>44.7%</u>
23. Unit Forced Outage Rate	<u>0.0%</u>	<u>8.9%</u>	<u>25.1 %</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): <u>Maintenance Outage, January 12, 1991, 45 days</u>			

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 1/9/91  
 COMPLETED BY K.A. Chavet  
 TELEPHONE (602) 340-4718

MONTH: December 1990

## DAY AVERAGE DAILY POWER LEVEL

1	<u>1263</u>
2	<u>1264</u>
3	<u>1262</u>
4	<u>1263</u>
5	<u>1262</u>
6	<u>1262</u>
7	<u>1261</u>
8	<u>1262</u>
9	<u>1262</u>
10	<u>1262</u>
11	<u>1261</u>
12	<u>1259</u>
13	<u>1256</u>
14	<u>1260</u>
15	<u>1259</u>
16	<u>1259</u>

## DAY AVERAGE DAILY POWER LEVEL

17	<u>1168</u>
18	<u>1262</u>
19	<u>1261</u>
20	<u>1260</u>
21	<u>1263</u>
22	<u>1265</u>
23	<u>1267</u>
24	<u>1265</u>
25	<u>1265</u>
26	<u>1265</u>
27	<u>1262</u>
28	<u>1254</u>
29	<u>1256</u>
30	<u>1260</u>
31	<u>1261</u>



REFUELING INFORMATION

DOCKET NO. 50-528  
UNIT NAME PVNGS-1  
DATE 1/9/91  
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?  
To be determined.
4. Scheduled date for submitting proposed licensing action and supporting information.  
To be 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, and new operating procedures.  
To be determined.
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 1/9/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

December 1990

12/01	00:00	Unit began the month in Mode 1, 100% RX power.
12/17	07:22	Commenced RX power reduction due to the Core Operating Limit Supervisory System (COLSS) being inoperable. RX power stabilized at 74.5%.
12/17	17:15	RX power back at 100%.
12/31	24:00	Unit ended the month in Mode 1, 100% RX power.



SHUTDOWNS AND POWER REDUCTIONS  
December 1990

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

No.	Date	Type <sup>1</sup>	Outage Duration Hours	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action to Prevent Recurrence
90/06	12/17/90	F	N/A	A	5	N/A	N/A	N/A	Power reduction to 74.5% due to Core Operating Limit Supervisory System (COLSS) being inoperable.

<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.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>1/9/91</u>
COMPLETED BY	<u>K.A. Chavet</u>
TELEPHONE	<u>(602) 340-4718</u>

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: December 1990
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	<u>744</u>	<u>8,760</u>	<u>37,560</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>5,376.2</u>	<u>24,627.3</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>5,276.2</u>	<u>24,023.4</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>2,809,763</u>	<u>19,093,048</u>	<u>87,721,401</u>
17. Gross Electrical Energy Generated (MWH)	<u>986,800</u>	<u>6,657,700</u>	<u>30,627,570</u>
18. Net Electrical Energy Generated (MWH)	<u>933,121</u>	<u>6,242,217</u>	<u>28,625,029</u>
19. Unit Service Factor	<u>100.0%</u>	<u>60.2%</u>	<u>64.0%</u>
20. Unit Availability Factor	<u>100.0%</u>	<u>60.2%</u>	<u>64.0%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>102.7%</u>	<u>58.4%</u>	<u>62.4%</u>
22. Unit Capacity Factor (Using DER Net)	<u>98.8%</u>	<u>56.1%</u>	<u>60.0%</u>
23. Unit Forced Outage Rate	<u>0.0%</u>	<u>0.0%</u>	<u>8.4%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): <u>N/A</u>			

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

	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 1/9/91  
 COMPLETED BY K.A. Chavet  
 TELEPHONE (602) 340-4718

MONTH: December 1990

## DAY AVERAGE DAILY POWER LEVEL

1	<u>1259</u>
2	<u>1260</u>
3	<u>1261</u>
4	<u>1252</u>
5	<u>1246</u>
6	<u>1250</u>
7	<u>1251</u>
8	<u>1253</u>
9	<u>1252</u>
10	<u>1250</u>
11	<u>1250</u>
12	<u>1248</u>
13	<u>1242</u>
14	<u>1248</u>
15	<u>1246</u>
16	<u>1244</u>

## DAY AVERAGE DAILY POWER LEVEL

17	<u>1246</u>
18	<u>1246</u>
19	<u>1245</u>
20	<u>1245</u>
21	<u>1077</u>
22	<u>1245</u>
23	<u>1248</u>
24	<u>1247</u>
25	<u>1249</u>
26	<u>1247</u>
27	<u>1248</u>
28	<u>1243</u>
29	<u>1242</u>
30	<u>1245</u>
31	<u>1255</u>

REFUELING INFORMATION

DOCKET NO. 50-529  
UNIT NAME PVNGS-2  
DATE 1/9/91  
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?  
To be determined.
4. Scheduled date for submitting proposed licensing action and supporting information.  
To be 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, and new operating procedures.  
To be determined.
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 1/9/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

December 1990

12/01	00:00	Unit began the month in Mode 1, 100% RX power.
12/21	05:44	Began power reduction to 70% due to unplanned MSIV closure.
12/21	19:06	RX power back at 100%.
12/31	24:00	Unit ended the month in Mode 1, 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS  
December 1990

DOCKET NO 50-529  
UNIT NAME PVNGS-2  
DATE 1/9/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

No.	Date	Type <sup>1</sup>	Outage Duration Hours	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action to Prevent Recurrence
90-10	12/21/90	F	N/A	A	5	N/A	N/A	N/A	Power reduction to 70% due to unplanned MSIV closure.

<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 1/9/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: December 1990
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	<u>744</u>	<u>8,760</u>	<u>26,136</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>8,168.5</u>	<u>17,579.7</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>8,049.2</u>	<u>17,323.2</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>2,725,831</u>	<u>29,195,836</u>	<u>63,606,227</u>
17. Gross Electrical Energy Generated (MWH)	<u>959,800</u>	<u>10,240,500</u>	<u>22,308,300</u>
18. Net Electrical Energy Generated (MWH)	<u>908,428</u>	<u>9,636,010</u>	<u>20,999,475</u>
19. Unit Service Factor	<u>100.0%</u>	<u>91.9%</u>	<u>66.3%</u>
20. Unit Availability Factor	<u>100.0%</u>	<u>91.9%</u>	<u>66.3%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.0%</u>	<u>90.1%</u>	<u>65.8%</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.1%</u>	<u>86.6%</u>	<u>63.3%</u>
23. Unit Forced Outage Rate	<u>0.0%</u>	<u>8.1%</u>	<u>8.8%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): <u>Refueling outage, March 16, 1991, 70 days</u>			

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

	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 1/9/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

MONTH: December 1990

## DAY AVERAGE DAILY POWER LEVEL

1	<u>1272</u>
2	<u>1271</u>
3	<u>1270</u>
4	<u>1271</u>
5	<u>1275</u>
6	<u>1273</u>
7	<u>1269</u>
8	<u>1270</u>
9	<u>1270</u>
10	<u>1270</u>
11	<u>1271</u>
12	<u>1268</u>
13	<u>1266</u>
14	<u>1270</u>
15	<u>1270</u>
16	<u>1268</u>

## DAY AVERAGE DAILY POWER LEVEL

17	<u>1272</u>
18	<u>1273</u>
19	<u>1274</u>
20	<u>1268</u>
21	<u>1272</u>
22	<u>1273</u>
23	<u>1273</u>
24	<u>1272</u>
25	<u>1222</u>
26	<u>438</u>
27	<u>666</u>
28	<u>1238</u>
29	<u>1266</u>
30	<u>1271</u>
31	<u>1269</u>





REFUELING INFORMATION

DOCKET NO. 50-530  
UNIT NAME PVNGS-3  
DATE 1/9/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

1. Scheduled date for next refueling shutdown.  
03/16/91, 2nd refueling.
2. Scheduled date for restart following refueling.  
05/25/91
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.  
To be 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, and new operating procedures.  
To be determined.
6. The number of fuel assemblies.  
a) In the core. 241  
b) In the spent fuel storage pool. 104
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 1/9/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

December 1990

12/01	00:00	Unit began the month in Mode 1, 100% RX power.
12/25	20:00	Commenced RX power reduction to 40% to repair a condenser tube leak.
12/28	04:51	RX power back at 100%.
12/31	24:00	Unit ended the month in Mode 1, 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS  
December 1990

DOCKET NO 50-530  
UNIT NAME PVNGS-3  
DATE 1/9/91  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

No.	Date	Type <sup>1</sup>	Outage Duration Hours	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action to Prevent Recurrence
90/13	12/25/90	F	N/A	A	5	N/A	N/A	N/A	Power reduction to 40% d to condenser tube leak.

<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

