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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

ECKLUND, B.S.      Arizona Public Service Co. (formerly Arizona Nuclear Power R

LEVINE, J.M.      Arizona Public Service Co. (formerly Arizona Nuclear Power I

RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Dec 1992 for PVNGS, units 1, 2 & 3. W/930108 ltr. D

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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

417-00020-JML/BSE  
January 8, 1993

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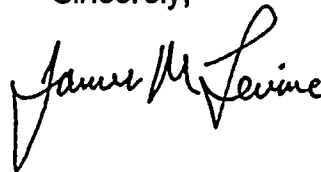
Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)**  
**Units 1, 2, and 3**  
**Docket Nos. STN 50-528/529/530**  
**Monthly Operating Reports for December 1992**  
**File: 92-024-404; 92-056-026**

Enclosed are the Monthly Operating Reports for December 1992, 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 V.

If you have any questions, please contact Brad S. Ecklund at (602) 340-4068.

Sincerely,



JML/BSE/gez  
Enclosures

cc: J. B. Martin (all w/enclosures)  
A. C. Gehr  
A. H. Gutterman  
NRC Senior Resident Inspector  
INPO Records Center  
Utility Data Institute

2000-23

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# NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528  
 UNIT NAME PVNGS-1  
 DATE 01/08/93  
 COMPLETED BY B. S. Ecklund  
 TELEPHONE (602) 340-4068

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: December 1992
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	744	8,784	60,720
12.	Hours Reactor was Critical	708.6	6,116.5	35,175.6
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	695.1	6,011.7	34,333.8
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,576,546	21,914,755	125,779,011
17.	Gross Electrical Energy Generated (MWH)	893,800	7,581,500	43,630,200
18.	Net Electrical Energy Generated (MWH)	840,060	7,118,804	40,943,596
19.	Unit Service Factor (%)	93.4%	68.4%	56.5%
20.	Unit Availability Factor (%)	93.4%	68.4%	56.5%
21.	Unit Capacity Factor (Using MDC Net)	92.5%	66.4%	55.2%
22.	Unit Capacity Factor (Using DER Net)	88.9%	63.8%	53.1%
23.	Unit Forced Outage Rate (%)	6.6%	6.3%	18.1%

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: 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 01/08/93  
 COMPLETED BY B. S. Ecklund  
 TELEPHONE (602) 340-4068

MONTH: December 1992

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1255</u>
2	<u>1254</u>
3	<u>1253</u>
4	<u>1249</u>
5	<u>1251</u>
6	<u>1252</u>
7	<u>1251</u>
8	<u>733</u>
9	<u>0</u>
10	<u>0</u>
11	<u>627</u>
12	<u>1239</u>
13	<u>1252</u>
14	<u>1252</u>
15	<u>1253</u>
16	<u>1253</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1255</u>
18	<u>1255</u>
19	<u>1255</u>
20	<u>1255</u>
21	<u>1254</u>
22	<u>1253</u>
23	<u>1253</u>
24	<u>1253</u>
25	<u>1230</u>
26	<u>1212</u>
27	<u>1225</u>
28	<u>1245</u>
29	<u>1245</u>
30	<u>1247</u>
31	<u>1248</u>





REFUELING INFORMATION

DOCKET NO. 50-528  
UNIT NAME PVNGS-1  
DATE 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4068

1. Scheduled date for next refueling shutdown.  
09/18/93, 4th refueling
2. Scheduled date for restart following refueling.  
11/27/93
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.  
  
N/A
6. The number of fuel assemblies.  
  
a) In the core. 241  
b) In the spent fuel storage pool. 276
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>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>01/08/93</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 340-4068</u>

## December 1992

12/01	0000	Unit began the month in Mode 1; 100% RX power.
12/08	1430	RX tripped on high pressurizer pressure following a main generator trip due to malfunction of a static negative sequence time overcurrent relay.
12/10	0156	Unit entered Mode 2, RX critical.
12/10	0616	Unit entered Mode 1.
12/10	1524	Synchronized main generator.
12/12	0237	RX power stabilized at 100%.
12/31	2400	Unit ended the month in Mode 1; 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS  
December 1992

DOCKET NO 50-528  
UNIT NAME PVNGS-1  
DATE 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4068

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
92-05	12/08/92	F	48.9	A	3	1-92-016	EL	51	RX tripped on high pressurizer pressure following a main generator trip due to malfunction of a static negative sequence time overcurrent relay.

<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 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4068

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: December 1992
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	744	8,784	55,104
12.	Hours Reactor was Critical	744.0	8,479.6	39,825.4
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	8,342.3	39,056.6
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,819,640	31,090,738	144,036,956
17.	Gross Electrical Energy Generated (MWH)	981,400	10,760,000	50,166,070
18.	Net Electrical Energy Generated (MWH)	922,263	10,122,504	47,012,719
19.	Unit Service Factor (%)	100.0%	95.0%	70.9%
20.	Unit Availability Factor (%)	100.0%	95.0%	70.9%
21.	Unit Capacity Factor (Using MDC Net)	101.5%	94.4%	69.9%
22.	Unit Capacity Factor (Using DER Net)	97.6%	90.7%	67.2%
23.	Unit Forced Outage Rate (%)	0.0%	2.9%	6.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): Refueling outage, March 20, 1993. 80 days.
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 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4068

MONTH: December 1992

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1247</u>
2	<u>1244</u>
3	<u>1239</u>
4	<u>1234</u>
5	<u>1237</u>
6	<u>1238</u>
7	<u>1236</u>
8	<u>1234</u>
9	<u>1235</u>
10	<u>1234</u>
11	<u>1234</u>
12	<u>1235</u>
13	<u>1236</u>
14	<u>1236</u>
15	<u>1237</u>
16	<u>1240</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1239</u>
18	<u>1237</u>
19	<u>1204</u>
20	<u>1181</u>
21	<u>1232</u>
22	<u>1233</u>
23	<u>1230</u>
24	<u>1233</u>
25	<u>1235</u>
26	<u>1237</u>
27	<u>1235</u>
28	<u>1234</u>
29	<u>1233</u>
30	<u>1233</u>
31	<u>1239</u>





REFUELING INFORMATION

DOCKET NO. 50-529  
UNIT NAME PVNGS-2  
DATE 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4068

1. Scheduled date for next refueling shutdown.  
03/20/93, 4th refueling
2. Scheduled date for restart following refueling.  
06/08/93
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?  
  
No. A change to the moderator temperature coefficient curve in the Technical Specification is anticipated as a result of the next refueling; however, APS anticipates accomplishing this change within the core operating limits report.
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.  
  
Minor modifications to the fuel pellet design is considered to be within the current Technical Specifications and no revision is required.
6. The number of fuel assemblies.  
  
a) In the core. 241  
b) In the spent fuel storage pool. 288
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>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>01/08/93</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 340-4068</u>

December 1992

12/01	0000	Unit began the month in Mode 1; 100% RX power.
12/31	2400	Unit ended the month in Mode 1; 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS  
December 1992

DOCKET NO 50-529  
UNIT NAME PVNGS-2  
DATE 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4068

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
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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 01/08/93  
 COMPLETED BY B. S. Ecklund  
 TELEPHONE (602) 340-4068

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: December 1992
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	744	8,784	43,680
12.	Hours Reactor was Critical	744.0	7,010.0	31,007.7
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	6,924.8	30,524.2
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,825,039	25,505,606	112,017,015
17.	Gross Electrical Energy Generated (MWH)	994,600	8,909,100	39,227,800
18.	Net Electrical Energy Generated (MWH)	942,531	8,385,395	36,903,320
19.	Unit Service Factor (%)	100.0%	78.8%	69.9%
20.	Unit Availability Factor (%)	100.0%	78.8%	69.9%
21.	Unit Capacity Factor (Using MDC Net)	103.8%	78.2%	69.2%
22.	Unit Capacity Factor (Using DER Net)	99.8%	75.2%	66.5%
23.	Unit Forced Outage Rate (%)	0.0%	3.3%	8.0%

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

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

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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530  
UNIT NAME PVNGS-3  
DATE 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4068

MONTH: December 1992

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1260</u>
2	<u>1268</u>
3	<u>1267</u>
4	<u>1262</u>
5	<u>1266</u>
6	<u>1266</u>
7	<u>1263</u>
8	<u>1264</u>
9	<u>1264</u>
10	<u>1265</u>
11	<u>1262</u>
12	<u>1257</u>
13	<u>1267</u>
14	<u>1270</u>
15	<u>1272</u>
16	<u>1271</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1273</u>
18	<u>1273</u>
19	<u>1273</u>
20	<u>1274</u>
21	<u>1272</u>
22	<u>1272</u>
23	<u>1273</u>
24	<u>1271</u>
25	<u>1271</u>
26	<u>1270</u>
27	<u>1268</u>
28	<u>1266</u>
29	<u>1265</u>
30	<u>1266</u>
31	<u>1267</u>





REFUELING INFORMATION

DOCKET NO. 50-530  
UNIT NAME PVNGS-3  
DATE 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4068

1. Scheduled date for next refueling shutdown.  
03/12/94, 4th refueling.
2. Scheduled date for restart following refueling.  
05/20/94.
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?  
  
Unknown at this time. Unit 3 Cycle 5 is presently in the preliminary design stages.
4. Scheduled date for submitting proposed licensing action and supporting information.  
  
Mid 1993.
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 NRC granted a license amendment (No. 35) which allows the use of 80 fuel rods clad with advanced zirconium based alloys (other than Zircaloy-4) in two fuel assemblies during Unit 3 Cycles 4, 5, and 6 for in-reactor performance evaluation. Date of issuance was July 20, 1992.
6. The number of fuel assemblies.  
  
a) In the core. 241  
b) In the spent fuel storage pool. 284
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 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4718

December 1992

12/01	0000	Unit began the month in Mode 1, 100% RX power.
12/31	2400	Unit ended the month in Mode 1, 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS  
December 1992

DOCKET NO 50-530  
UNIT NAME PVNGS-3  
DATE 01/08/93  
COMPLETED BY B. S. Ecklund  
TELEPHONE (602) 340-4068

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
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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

