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SUBJECT: Monthly operating repts for Aug 1990 for Palo Verde Nuclear  
 Generating Station Units 1,2 & 3.W/900917ltr.

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Arizona Public Service Company

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

September 17, 1990  
254-01132-JML/KAC

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 August 1990  
File: 90-024-404

Attached are the Monthly Operating Reports for August 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: S. Peterson (all w/attachments)  
J. B. Martin  
D. H. Coe  
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# NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528  
UNIT NAME PVNGS-1  
DATE 09/11/90  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: August 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>5,832</u>	<u>40,248</u>
12. Number of Hours Reactor Was Critical	<u>646.4</u>	<u>1528.0</u>	<u>18,790.1</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>632.9</u>	<u>1271.0</u>	<u>18,097.9</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>2,337,547</u>	<u>4,494,919</u>	<u>65,426,140</u>
17. Gross Electrical Energy Generated (MWH)	<u>804,400</u>	<u>1,528,700</u>	<u>22,691,800</u>
18. Net Electrical Energy Generated (MWH)	<u>756,130</u>	<u>1,431,203</u>	<u>21,224,393</u>
19. Unit Service Factor	<u>85.1%</u>	<u>21.8%</u>	<u>45.0%</u>
20. Unit Availability Factor	<u>85.1%</u>	<u>21.8%</u>	<u>45.0%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>83.2%</u>	<u>20.1%</u>	<u>43.2%</u>
22. Unit Capacity Factor (Using DER Net)	<u>80.0%</u>	<u>19.3%</u>	<u>41.5%</u>
23. Unit Forced Outage Rate	<u>14.9%</u>	<u>8.0%</u>	<u>27.0 %</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): <u>Maintenance Outage, January 21, 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 09/11/90  
 COMPLETED BY K.A. Chavet  
 TELEPHONE (602) 340-4718

MONTH: AUGUST 1990

DAY AVERAGE DAILY POWER LEVEL

1	<u>1239</u>
2	<u>1243</u>
3	<u>1241</u>
4	<u>1241</u>
5	<u>1241</u>
6	<u>1239</u>
7	<u>1242</u>
8	<u>1242</u>
9	<u>1240</u>
10	<u>1239</u>
11	<u>1231</u>
12	<u>1239</u>
13	<u>1242</u>
14	<u>1151</u>
15	<u>0</u>
16	<u>0</u>

DAY AVERAGE DAILY POWER LEVEL

17	<u>0</u>
18	<u>0</u>
19	<u>42</u>
20	<u>726</u>
21	<u>1245</u>
22	<u>1249</u>
23	<u>1241</u>
24	<u>1247</u>
25	<u>1249</u>
26	<u>1251</u>
27	<u>1243</u>
28	<u>1238</u>
29	<u>1237</u>
30	<u>1242</u>
31	<u>1242</u>



REFUELING INFORMATION

DOCKET NO. 50-528  
UNIT NAME PVNGS-1  
DATE 09/11/90  
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 09/11/90  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

## August 1990

08/01	00:00	Unit began the month in Mode 1, 2nd Refueling Outage.
08/14	22:10	Commenced power reduction after main transformer "B" cooling fans became inoperable.
08/14	22:23	Manually tripped turbine at 65%. RX trip on high pressurizer pressure.
08/18	23:57	Entered Mode 2.
08/19	05:50	Entered Mode 1.
08/19	13:29	Synchronized generator to grid.
08/31	24:00	Unit ended the month in Mode 1, 100% RX power.



# SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-528  
UNIT NAME PVNGS-1  
DATE 09/11/90  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

No.	Date	Type <sup>1</sup>	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
90/02	08/14/90	F	111.1	A	3	N/A	N/A	N/A	Manual turbine trip after txfmr "B" cooling fans became inoperable. RX trip on High pressurizer pressure.

<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 09/11/90  
 COMPLETED BY K.A. Chavet  
 TELEPHONE (602) 340-4718

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: August 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>5,832</u>	<u>34,632</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>2,448.2</u>	<u>21,699.3</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>2,348.2</u>	<u>21,095.4</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>2,659,419</u>	<u>8,088,920</u>	<u>76,717,273</u>
17. Gross Electrical Energy Generated (MWH)	<u>918,100</u>	<u>2,804,300</u>	<u>26,774,170</u>
18. Net Electrical Energy Generated (MWH)	<u>862,730</u>	<u>2,609,719</u>	<u>24,992,531</u>
19. Unit Service Factor	<u>100.0%</u>	<u>40.3%</u>	<u>60.9%</u>
20. Unit Availability Factor	<u>100.0%</u>	<u>40.3%</u>	<u>60.9%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>95.0%</u>	<u>36.6%</u>	<u>59.1%</u>
22. Unit Capacity Factor (Using DER Net)	<u>91.3%</u>	<u>35.2%</u>	<u>56.8%</u>
23. Unit Forced Outage Rate	<u>0.0%</u>	<u>0.0%</u>	<u>9.4%</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

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 09/11/90  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

MONTH: AUGUST 1990

DAY AVERAGE DAILY POWER LEVEL

1	<u>410</u>
2	<u>413</u>
3	<u>833</u>
4	<u>1233</u>
5	<u>1238</u>
6	<u>1238</u>
7	<u>1240</u>
8	<u>1242</u>
9	<u>1237</u>
10	<u>1228</u>
11	<u>1166</u>
12	<u>1227</u>
13	<u>1225</u>
14	<u>1183</u>
15	<u>1041</u>
16	<u>1185</u>

DAY AVERAGE DAILY POWER LEVEL

17	<u>1230</u>
18	<u>1235</u>
19	<u>1238</u>
20	<u>1243</u>
21	<u>1243</u>
22	<u>1239</u>
23	<u>1243</u>
24	<u>1242</u>
25	<u>1219</u>
26	<u>1243</u>
27	<u>1240</u>
28	<u>1234</u>
29	<u>1235</u>
30	<u>1235</u>
31	<u>1236</u>



REFUELING INFORMATION

DOCKET NO. 50-529  
UNIT NAME PVNGS-2  
DATE 09/11/90  
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 09/11/90  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

## August 1990

08/01	00:00	Unit began the month in Mode 1, 40% RX power due to repair of condenser tube leak.
08/04	05:50	RX power at 100%.
08/11	05:42	Unit commenced power reduction to 95% for planned valve testing.
08/12	00:45	Unit back at 100% RX power.
08/14	16:41	Commenced power down to 85% due to loss of cooling tower fans in tower #3.
08/16	06:00	Unit back at 100% RX power.
08/31	24:00	Unit ended the month in Mode 1, 100% RX power.



## SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-529  
 UNIT NAME PVNGS-2  
 DATE 09/11/90  
 COMPLETED BY K.A. Chavet  
 TELEPHONE (602) 340-4718

No.	Date	Type <sup>1</sup>	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
90/03	07/28/90	F	N/A	A	4	N/A	N/A	N/A	Continuation from previous month. Power reduction to 40% for repair of a condenser tube leak.
90/04	08/14/90	F	N/A	A	9	N/A	N/A	N/A	Power reduction to 85% after losing fans in cooling tower #3.

<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 09/11/90  
 COMPLETED BY K.A. Chavet  
 TELEPHONE (602) 340-4718

## OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: August 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>5,832</u>	<u>23,208</u>
12. Number of Hours Reactor Was Critical	<u>711.3</u>	<u>5,268.5</u>	<u>14,679.7</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>701.2</u>	<u>5,159.9</u>	<u>14,433.9</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>2,576,199</u>	<u>18,452,332</u>	<u>52,862,723</u>
17. Gross Electrical Energy Generated (MWH)	<u>899,200</u>	<u>6,464,600</u>	<u>18,532,400</u>
18. Net Electrical Energy Generated (MWH)	<u>847,348</u>	<u>6,067,592</u>	<u>17,431,057</u>
19. Unit Service Factor	<u>94.2%</u>	<u>88.5%</u>	<u>62.2%</u>
20. Unit Availability Factor	<u>94.2%</u>	<u>88.5%</u>	<u>62.2%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>93.3%</u>	<u>85.2%</u>	<u>61.5%</u>
22. Unit Capacity Factor (Using DER Net)	<u>89.7%</u>	<u>81.9%</u>	<u>59.1%</u>
23. Unit Forced Outage Rate	<u>5.8%</u>	<u>11.4%</u>	<u>10.1%</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>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 09/11/90  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

MONTH: AUGUST 1990

DAY AVERAGE DAILY POWER LEVEL

1	<u>1254</u>
2	<u>1256</u>
3	<u>1253</u>
4	<u>1218</u>
5	<u>860</u>
6	<u>0</u>
7	<u>24</u>
8	<u>660</u>
9	<u>1236</u>
10	<u>1251</u>
11	<u>1247</u>
12	<u>1252</u>
13	<u>1252</u>
14	<u>1251</u>
15	<u>1252</u>
16	<u>1251</u>

DAY AVERAGE DAILY POWER LEVEL

17	<u>1255</u>
18	<u>1260</u>
19	<u>1261</u>
20	<u>1262</u>
21	<u>1263</u>
22	<u>1264</u>
23	<u>1265</u>
24	<u>1263</u>
25	<u>1261</u>
26	<u>1260</u>
27	<u>1255</u>
28	<u>1249</u>
29	<u>1251</u>
30	<u>1252</u>
31	<u>1250</u>





REFUELING INFORMATION

DOCKET NO. 50-530  
UNIT NAME PVNGS-3  
DATE 09/11/90  
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.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>09/11/90</u>
COMPLETED BY	<u>K.A. Chavet</u>
TELEPHONE	<u>(602) 340-4718</u>

## August 1990

08/01	00:00	Unit began the month in Mode 1, 100% RX power.
08/04	05:55	Began RX power reduction to 95% for planned valve testing.
08/04	21:05	Unit back at 100% RX power.
08/05	14:58	Commenced RX power reduction for plant shutdown due to slipped control rod.
08/05	18:15	Generator taken off grid.
08/05	18:17	Entered Mode 2.
08/05	20:09	Entered Mode 3.
08/07	04:49	Entered Mode 2.
08/07	08:01	Entered Mode 1.
08/07	13:03	Synchronized generator to grid.
08/09	04:41	Unit reached 100% RX power.
08/31	24:00	Unit ended the month in Mode 1, 100% RX power.



# SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-530  
UNIT NAME PVNGS-3  
DATE 09/11/90  
COMPLETED BY K.A. Chavet  
TELEPHONE (602) 340-4718

No.	Date	Type <sup>1</sup>	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
90/09	08/05/90	F	42.8	A	1	390006	AA	ROD	RX shutdown due to dropped control rod.

<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



17-00000