

PRIORITY 1

(ACCELERATED RIDS PROCESSING)

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9510160011 DOC.DATE: 95/09/30 NOTARIZED: NO DOCKET #
FACIL:STN-50-528 Palo Verde Nuclear Station, Unit 1, Arizona Publi 05000528 P
STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Publi 05000529
STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi 05000530 R
AUTH.NAME AUTHOR AFFILIATION
FULTON,J.D. Arizona Public Service Co. (formerly Arizona Nuclear Power I
LEVINE,J.M. Arizona Public Service Co. (formerly Arizona Nuclear Power I
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Sept 1995 for Palo Verde Nuclear
Generating Station.W/951011 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 16
TITLE: Monthly Operating Report (per Tech Specs)

NOTES:STANDARDIZED PLANT 05000528
Standardized plant. 05000529 T
Standardized plant. 05000530 Y

RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	
PD4-2 PD	1 1	HOLIAN, B	1 1	1
TRAN, L	1 1	THOMAS, C	1 1	
INTERNAL: AGRS	10 10	AEOD/SPD/RRAB	1 1	
FILE CENTER 01	1 1	NRR/DISP/PIPB	1 1	D
NRR/DRPM/PECB	1 1	RGN4	1 1	
EXTERNAL: LITCO BRYCE, J H	1 1	NOAC	1 1	O
NRC PDR	1 1			C

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL
DESK, ROOM OWEN 5D8 (415-2083) TO ELIMINATE YOUR NAME FROM
DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 22 ENCL 22

115

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

JAMES M. LEVINE
VICE PRESIDENT
NUCLEAR PRODUCTION

182-06100-JML/JLT/JDF
October 11, 1995

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-37
Washington, DC 20555

Dear Sirs:

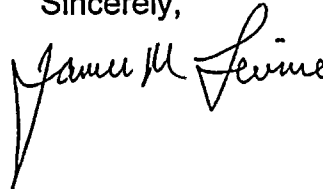
**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
Monthly Operating Reports for September 1995**

Enclosed are the Monthly Operating Reports for September 1995, 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 IV.

If you have any questions, please contact Judy Fulton at (602) 393-5277.

Sincerely,



JML/JLT/JDF/clj

Enclosures: September 1995 Monthly Operating Reports

cc: L. J. Callan (all w/enclosures)
K. E. Perkins
NRC Senior Resident Inspector
INPO Records Center
Utility Data Institute

9510160011 950930
PDR ADDCK 05000528
R PDR

1524
11

2010

10

10

10

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 10/11/95
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: September 1995
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1249
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1227
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	84,792
12.	Hours Reactor was Critical	720.0	5,218.3	55,851.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	720.0	5,158.2	54,814.8
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,732,753	18,870,377	197,952,395
17.	Gross Electrical Energy Generated (MWH)	934,500	6,456,000	68,502,500
18.	Net Electrical Energy Generated (MWH)	883,570	6,073,865	64,304,771
19.	Unit Service Factor (%)	100.0%	78.7%	64.6%
20.	Unit Availability Factor (%)	100.0%	78.7%	64.6%
21.	Unit Capacity Factor (Using MDC Net)	100.0%	75.6%	62.1%
22.	Unit Capacity Factor (Using DER Net)	98.3%	74.2%	59.7%
23.	Unit Forced Outage Rate (%)	0.0%	0.6%	12.5%

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>05/85</u>	<u>05/25/85</u>
COMMERCIAL OPERATION	<u>06/85</u>	<u>06/10/85</u>
	<u>11/85</u>	<u>01/28/86</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

MONTH: September 1995

DAY AVERAGE DAILY POWER LEVEL

1	1226
2	1217
3	1232
4	1228
5	1217
6	1214
7	1220
8	1219
9	1218
10	1224
11	1230
12	1242
13	1239
14	1237
15	1237
16	1234

DAY AVERAGE DAILY POWER LEVEL

17	1235
18	1235
19	1238
20	1237
21	1239
22	1238
23	1238
24	1236
25	1237
26	1237
27	1235
28	1231
29	1242
30	1241
31	

REFUELING INFORMATION

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>10/11/95</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 393-5277</u>

1. **Scheduled date for next refueling shutdown.**

The 6th refueling outage is scheduled to begin on 09/07/96.

2. **Scheduled date for restart following refueling.**

11/01/96.

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

No

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

5/20/96

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.**

None.

6. **The number of fuel assemblies.**

- a) In the core. 241
b) In the spent fuel storage pool. 456

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. 50-528
UNIT NAME PVNGS-1
DATE 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

September 1995

09/01	0000	Unit began the month in Mode 1 with Rx power at 100%.
09/30	2400	Unit ended the month in Mode 1 with Rx power at 100%.

SHUTDOWNS AND POWER REDUCTIONS
September 1995

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602)393-5277

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 Occurrence
-----	------	-------------------	-----------------------------	---------------------	--	---------	-----------------------------	--------------------------------	--

No reactor shutdowns or significant power reductions occurred during the month of September 1995

¹F-Forced
S-Scheduled

²Reason:
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)

³Method:
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)

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

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: September 1995
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1249
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1227
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	79,176
12.	Hours Reactor was Critical	720.0	5,275.4	55,927.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	720.0	5,213.3	54,814.2
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,734,249	19,413,161	199,657,068
17.	Gross Electrical Energy Generated (MWH)	940,600	6,691,000	69,422,470
18.	Net Electrical Energy Generated (MWH)	894,021	6,310,321	65,004,216
19.	Unit Service Factor (%)	100.0%	79.6%	69.2%
20.	Unit Availability Factor (%)	100.0%	79.6%	69.2%
21.	Unit Capacity Factor (Using MDC Net)	101.2%	78.5%	67.2%
22.	Unit Capacity Factor (Using DER Net)	99.4%	77.1%	64.6%
23.	Unit Forced Outage Rate (%)	0.0%	0.7%	5.6%

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>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 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

MONTH: September 1995

DAY AVERAGE DAILY POWER LEVEL

1	1243
2	1242
3	1248
4	1244
5	1236
6	1241
7	1243
8	1242
9	1244
10	1246
11	1249
12	1252
13	1252
14	1248
15	1247
16	1244

DAY AVERAGE DAILY POWER LEVEL

17	1246
18	1246
19	1248
20	1247
21	1249
22	1248
23	1242
24	1249
25	1249
26	1248
27	1245
28	1244
29	1253
30	1256
31	

REFUELING INFORMATION

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

1. Scheduled date for next refueling shutdown.

The 6th refueling outage is scheduled for 03/16/96.

2. Scheduled date for restart following refueling.

05/10/96.

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

- a. Technical Specification change to Note 5 of Table 4.3-1 for the proposed installation of a cycle independent shape annealing matrix.
- b. Technical Specification 3.2.6 "Reactor Coolant Cold Leg Temperature" figure 3.2-1 to establish new 100% power operation allowable temperature to 560°F to 550°F.

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

12/08/95.

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.

Stretch Power to 102%.

6. The number of fuel assemblies.

- a) In the core. 241
- b) In the spent fuel storage pool. 444

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. 50-529
UNIT NAME PVNGS-2
DATE 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

September 1995

09/01 0000 Unit began the month in Mode 1 at 100% Rx power.
09/30 2400 Unit ended the month in Mode 1 at 100% Rx power.

SHUTDOWNS AND POWER REDUCTIONS
September 1995

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602)393-5277

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 Occurrence
-----	------	-------------------	-----------------------------	---------------------	--	---------	-----------------------------	--------------------------------	--

No reactor shutdowns or significant power reductions occurred during the month of September 1995.

¹F-Forced
S-Scheduled

²Reason:
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)

³Method:
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)

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

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-530
 UNIT NAME PVNGS-3
 DATE 10/11/95
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: September 1995
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1253
6. Maximum Dependable Capacity (Gross MWe): 1302
7. Maximum Dependable Capacity (Net MWe): 1230
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	67,752
12.	Hours Reactor was Critical	720.0	6,552.0	51,566.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	720.0	6,552.0	50,899.5
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,735,334	24,650,895	186,427,828
17.	Gross Electrical Energy Generated (MWH)	943,600	8,585,300	65,117,000
18.	Net Electrical Energy Generated (MWH)	892,694	8,107,516	61,230,223
19.	Unit Service Factor (%)	100.0%	100.0%	75.1%
20.	Unit Availability Factor (%)	100.0%	100.0%	75.1%
21.	Unit Capacity Factor (Using MDC Net)	100.8%	100.6%	74.0%
22.	Unit Capacity Factor (Using DER Net)	99.0%	98.8%	71.2%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	5.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): 5th Refueling Outage
scheduled to begin 10/14/95.
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>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

MONTH: September 1995

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1240	17	1244
2	1240	18	1246
3	1244	19	1248
4	1243	20	1247
5	1235	21	1250
6	1238	22	1252
7	1241	23	1250
8	1240	24	1249
9	1240	25	1248
10	1242	26	1246
11	1246	27	1246
12	1251	28	1243
13	1251	29	1251
14	1246	30	1254
15	1245	31	
16	1245		

REFUELING INFORMATION

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>10/11/95</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 393-5277</u>

1. **Scheduled date for next refueling shutdown.**

The 5th refueling outage is scheduled to begin 10/14/95.

2. **Scheduled date for restart following refueling.**

12/23/95.

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

a. Technical Specification change to Note 5 of Table 4.3-1 for the proposed installation of a cycle independent shape annealing matrix. (approved by NRC 9/20/95).

b. Technical Specification change to revise list of analytical methods in 6.9.1.10. (submitted 8/4/95 to NRC)

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

None.

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.**

None.

6. **The number of fuel assemblies.**

a) In the core. 241

b) In the spent fuel storage pool. 380

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>10/11/95</u>
COMPLETED BY	<u>J. D. Fulton</u>
TELEPHONE	<u>(602) 393-5277</u>

September 1995

09/01	0000	Unit began the month in Mode 1 at 100% power.
09/30	2400	Unit ended the month in Mode 1 at 100% power.

SHUTDOWNS AND POWER REDUCTIONS
September 1995

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 10/11/95
COMPLETED BY J. D. Fulton
TELEPHONE (602)393-5277

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 Occurrence
-----	------	-------------------	-----------------------------	---------------------	--	---------	-----------------------------	--------------------------------	--

No reactor shutdowns or significant power reductions occurred during the month of September, 1995.

¹F-Forced
S-Scheduled

²Reason:
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)

³Method:
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)

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

⁵Exhibit H-Same Source

