NRC MONTHLY OPERATING REPORT

1270

UNIT NAME <u>PVNGS-1</u>	DOCKET NO.	50-528
5455	UNIT NAME	PVNGS-1
DATE $10/10/89$	DATE	10/10/89
COMPLETED BY K. F. Porter	COMPLETED BY	K. F. Porter
TELEPHONE (602) 371-4187	TELEPHONE	(602) 371-4187

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OPERATING STATUS

- 1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
- 2. Reporting Period: September 1989
- 3. Licensed Thermal Power (MWt): <u>3800</u>
- 4. Nameplate Rating (Gross MWe): 1403
- 5. Design Electrical Rating (Net MWe):
- 6. Maximum Dependable Capacity (Gross MWe): 1303
- 7. Maximum Dependable Capacity (Net MWe): <u>1221</u>
- 8. If Changes Occur In Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: <u>N/A</u>

9. Power Level to Which Restricted, If Any (Net MWe): None

10. Reasons For Restrictions, If Any: N/A

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		This Month	Yrto-Date	Cumulative
$\frac{11}{12}$	Hours in Reporting Period Number of Hours Reactor	720	6,552	32,208.0
±41	Was Critical	0	1,522.0	17,262.1
13.	Reactor Reserve Shutdown		1 <i>i f</i>	
	Hours	0	0	0
14.	Hours Generator On-Line	0	1,522.0	16,826,9
15.	Unit Reserve Shutdown	1	1	
	Hours	0	<u> </u>	0
16.	Gross Thermal Energy			
	Generated (MWH)	0	5,565,298	60,931,221
17.	Gross Electrical Energy			
	Generated (MWH)	0	1,933,700	21,163,100
18.	Net Electrical Energy			
	Generated (MWH)	0	1,796,575	19.793.190.0
19.	Unit Service Factor	0%	23.28	52.28
20.	Unit Availability Factor	08	23.28	52.28
21	Unit Capacity Factor			
64 A. I	(Using MDC Net)	0%	22.5%	50.3%
22	Unit Canacity Factor			·
<i>4</i> 2 .	(Using DER Net)	0%	21.68	48 48
22	Unit Forced Outage Pate	0	34 68	28 18
2J.	Churdowng Cabadulad Owar Novt	6 Months (Tune D	te and Duration of	Fach) :
24.	N/A	o noncus (Type, Da	ice, and bulacion of	Eachy.
			and the second	

25. If Shutdown At End of Report Period, Estimated Date of Startup: December 31, 1989

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

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AVERAGE DAILY UNIT POWER LEVEL

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· · · · ·	, ' , '	۰,		DOCKET NO.	50-528
, · · ·		1	r I	UNIT NAME	PVNGS-1
				DATE	10/10/89
1	I.	,F	5 1 5	COMPLETED BY	K. F. Porter
			· ·	TELEPHONE	<u>(602) 371-4187</u>

MONTH: SEPTEMBER 1989

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mon m.	SHITEMBER 1909		4	·
DAY	AVERAGE DAILY POWER LEVEL	n B	DAY	AVERAGE DAILY POWER LEVEL
1	0		17	<u>0</u>
2	0		18	0
3	0		19	0
4	0		20	0
5	0		21	0
6	0		22	0
7	0		23	0
8	.0		24	
9	0		25	0
10	.0	_	26	0
11	0	_	27	0
12	0	_	28	0
13	0	_	29	. 0
14	0	_	30	0
15	0			
16	0	_		



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DOCKET NO.	50-528
UNIT NAME	PVNGS-1
DATE	10/10/89
COMPLETED BY	K, F, Porter
TELEPHONE	(602) 371-4187

1. Scheduled date for next refueling shutdown.

08/11/91, 3rd refueling.

2. Scheduled date for restart following refueling.

11/14/91

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, new operating procedures.

The fuel vendor for the next reload will be Combustion Engineering.

- 6. The number of fuel assemblies
 - a) In the core. <u>241</u>
 - b) In the spent fuel storage pool. <u>188</u>
- 7. Licensed spent fuel storage capacity. <u>1329</u>

Intended change in spent fuel storage capacity. <u>None</u>

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).

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	<u>50-528</u>
UNIT NAME	PVNGS-1
DATE	10/10/89
COMPLETED BY	K. F. Porter
TELEPHONE	(602) 371-4187

SEPTEMBER 1989

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09/01 0000 Unit begins month in Mode 6, 2nd Refueling Outage.

09/30 2400 Unit ends month in Mode 6.

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SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	<u>50-528</u>
UNIT NAME	PVNGS-1
DATE	10/10/89 .
COMPLETED BY	K, F, Porter.
TELEPHONE	(602) 371-4187

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No.	Date	Type ¹	Duration Hours	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵	Cause and Corrective Action to Prevent Recurrence
89/03	04/08/	89 S	720	С	4	N/A	N/A	N/A	2nd refueling outage.
*		-							
	*							-	
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-	-	-							
- . a	-								
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	÷	-							
 F- S-	Forced Schedule	2 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Reason: A-Equipment Fai B-Maintenance o C-Refueling D-Regulatory Re E-Operator Trai F-Administrativ G-Operational F	lure (Expla r Test striction ning & Lice e rror	ain) ense Examination	3 Method 1-Manu 2-Manu 3-Auto 4-Cont Prev 5-Redu or G	: al al Scram matic Scr inuation ious Mont ction of reater in	am from h 20% 5 the	Exhibit F-Instructions for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161) Exhibit H-Same Source
		1	H-Other (Explai	n)	- 5-	Past 9-0the	24 Hours r-(Explain	n)	Exilipite II-Salle Soulce

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NRC MONTHLY OPERATING REPORT

1270

DOCKET NO.	<u>50-529</u>
UNIT NAME	PVNGS-2
DATE	10/10/89
COMPLETED BY	K. F. Porter
TELEPHONE	(602) 371-4187

OPERATING STATUS

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

- Reporting Period: September 1989 2.
- Licensed Thermal Power (MWt): <u>3800</u> Nameplate Rating (Gross MWe): <u>1403</u> 3.
- 4.
- Design Electrical Rating (Net MWe): 5.
- Maximum Dependable Capacity (Gross MWe): 1303 6.
- Maximum Dependable Capacity (Net MWe): 7. <u>1221</u>
- If Changes Occur In Capacity Ratings (Items Number 3 Through 7) 8. Since Last Report, Give Reasons: N/A

Power Level to Which Restricted, If Any (Net MWe): None 9.

10. Reasons For Restrictions, If Any: N/A_

		This Month	Yrto-Date	Cumulative
11.	Hours in Reporting Period	720	6,552	26,592
12.	Was Critical	349,3	3,162.3	18,187.4
13.	Reactor Reserve Shutdown	٥	0	0
14.	Hours Generator On-Line		2,982,6	17,723.3
15.	Unit Reserve Shutdown	0.0	0.0	0.0
16.	Generated (MWH)	`1.206.913	10.949.298	64,876,075
17.	Gross Electrical Energy Generated (MWH)	419,200	3.791.300	22.659.770
18.	Net Electrical Energy	375 510	3 490 306	01 174 350
19.	Unit Service Factor	46.38	45.5%	<u>21,174,555</u> <u>66,6%</u>
20.	Unit Availability Factor	46.38	45.58	66,68
21.	Unit Capacity Factor (Using MDC Net)	42.7	43.6	65,2
22.	Unit Capacity Factor	41 1	41.9	62.7
23	Unit Forced Outage Rate	0	17.28	7.6%
24.	Shutdowns Scheduled Over Next (Refueling Outage - 01/90 - 90)	Months (Type, Days	Date, and Duration of E	ach):

If Shutdown At End of Report Period, Estimated Date of Startup: 25. N/A_

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

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AVERAGE DAILY UNIT POWER LEVEL /<u>L</u> \mathbf{e}^{i} ι, 1 ⁻ 1

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DOCKET NO. <u>50-529</u> UNIT NAME PVNGS-2 DATE 10/10/89 COMPLETED BY K. F. Porter TELEPHONE (602) 371-4187

MONTH: SEPTEMBER 1989

DAY	AVERAGE DAILY	POWER	LEVEL
1.	1242_		
2	1207		
3.	1227	•	
4.	1213		
5.	1245		
6	703		<u>-</u>
7.	0		
8.	0		
9.	0		
10	0	<u> </u>	
11	0		
12	0		
13	0		
14	0_		
15	0		
16	. 0		

DAY	AVERAGE DAILY	POWER LEVEL
17	0	
18	0	····
19	0	
20	0	·····
21	0	
22	0	
23	865	
24	1246	
25	1246	
26	1248	
27	1247	
28	1249	
29	1253	
30	1236	

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REFUELING INFORMATION



DOCKET NO.	50-529
UNIT NAME	PVNGS-2
DATE	10/10/89
COMPLETED BY-	K, F, Porter
TELEPHONE	(602) 371-4187

1. Scheduled date for next refueling shutdown.

02/10/90, 2nd refueling.

2. Scheduled date for restart following refueling.

05/16/90

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

Fig. 3.1-1A, Tables 3.1-2, 3.1-3, 3.1-5, Fig. 3.2-2, Fig. 3.2-2a Fig. 3.1-3, Fig. 3.1-4, Tech Spec 3.2.7

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

10/89

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, new operating procedures.

To be determined.

- 6. The number of fuel assemblies
 - a) In the core. <u>241</u>
 - b) In the spent fuel storage pool. <u>108</u>
- 7. Licensed spent fuel storage capacity. <u>1329</u>

Intended change in spent fuel storage capacity. <u>None</u>

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).



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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	50-529
UNIT NAME	PVNGS-2
DATE	10/10/89
COMPLETED BY	K. F. Porter
TELEPHONE	(602) 371-4187

SEPTEMBER 1989

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09/01	0000	Unit began month operating in Mode 1, 100% RX Power.
09/06	11:25	Unit commenced shut down to check the main steam safety valves.
09/06	15:29	Turbine taken off-line.
09/06	15:38	Unit entered Mode 2.
09/06	16:07	Unit entered Mode 3.
09/08	02:26	Unit entered Mode 4.
09/18	03:30	Unit entered Mode 3.
09/22	02:53	Unit entered Mode 2.
09/22	05:36	Unit entered Mode 1.
09/22	17:58	Generator synchronized to grid.
09/23	18:05	Unit reached 100% power.
09/30	24:00	Unit ended month in Mode 1, 100% RX Power.



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SHUTDOWNS AND POWER REDUCTIONS

	-							-	DOCKET NO.50-529UNIT NAMEPVNGS-2DATE10/10/89COMPLETED BYK. F. Porter.TELEPHONE(602) 371-4187
	o. Date	Typel	Duration Hours	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵	Cause and Corrective Action to Prevent Recurrence
- `89/0	8 09/06/89	S	386.5	В	1	N/A	N/A	N/A	Unit taken off-line for testing of main steam safety valves.
- - -	•								-
	F-Forced S-Scheduled	2 Rea B-M C-R D-R E-O F-A G-O H-O	son: quipment Fai aintenance o efueling egulatory Re perator Trai dministrativ perational E ther (Explai	lure (Expla r Test striction ning & Lica e rror n)	ain) ense Examination	3 Method 1-Manu 2-Manu 3-Auto 4-Cont Prev 5-Redu or G Past 9-Othe	: al Scram matic Scrain inuation : ious Montl ction of : reater in 24 Hours r-(Explain	am from 1 20% 5 the n)	Exhibit F-Instructions for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161) Exhibit H-Same Source

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NRC MONTHLY OPERATING REPORT

1270

DOCKET NO.	50-530
UNIT NAME	PVNGS-3
DATE	10/10/89
COMPLETED BY	K, F, Porter
TELEPHONE	(602) 371-4187

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3

2. Reporting Period: September 1989

3. Licensed Thermal Power (MWt): <u>3800</u>

- 4. Nameplate Rating (Gross MWe): 1403
- 5. Design Electrical Rating (Net MWe):

6. Maximum Dependable Capacity (Gross MWe): 1303

- 7. Maximum Dependable Capacity (Net MWe): <u>1221</u>
- 8. If Changes Occur In Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: <u>N/A</u>

9. Power Level to Which Restricted, If Any (Net MWe): None

10. Reasons For Restrictions, If Any: N/A

		This Month	Yrto-Date	Cumulative
$\frac{11}{12}$	Hours in Reporting Period	720,0	6,552	15,168
12.	Was Critical	0	1,106.1	9,307.8
13.	Reactor Reserve Shutdown			
	Hours	0	0	0
14.	Hours Generator On-Line	0	1,095.0	9,273.0
15.	Unit Reserve Shutdown			
	Hours	0	0	0
16.	Gross Thermal Energy			
	Generated (MWH)	00	4,090,086	34,402,824
17.	Gross Electrical Energy			
	Generated (MWH)	0	1,420,500	12,067,700
18.	Net Electrical Energy			
	Generated (MWH)	0	1,327,990	11,363,465
19.	Unit Service Factor	08	16.7%	61.1%
20.	Unit Availability Factor	08	16.78	61.1%
21	Unit Capacity Factor			
	(Using MDC Net)	0%	16.6%	61.48
22	Unit Canacity Factor			·
	(Using DER Net)	0%	16 0%	59 0%
23	Unit Forced Outage Rate	08	31 18	9 18
22.	Shutdowns Scheduled Over Neve	t 6 Months (Type Date	and Duration of	Fach):
24.	M /A	c o noncus (Type, Dace	, and buracton of	Bachy.

25. If Shutdown At End of Report Period, Estimated Date of Startup: November 1, 1989

> INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION

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Forecast	Achieved
07/87	<u>10/25/87</u>
07/87	11/28/87
09/87	01/08/88

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-530
UNIT NAME	PVNGS-3
DATE	10/10/89
COMPLETED BY	K. F. Porter
TELEPHONE	(602) 371-4187

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MONTH: SEPTEMBER 1989

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DAY	AVERAGE DAILY POWER LEVEL		DAY	AVERAGE DAILY POWER LEVEL
1	0	_	17	0
2	0	_	18	0
3	00	-	19	0
4	0	-	20	0
5	0	_	21	· 0
6	0	τ.	22	
7	0	- 14 '	23	0
8		-	24	0
9	0	<u>.</u> 11	25	0
10	0	, í	26	
11	.0	'	27	0
12	0		28	0
13	0		29	0
14	0		30	0
15	0			
16	0			

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REFUELING INFORMATION



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DOCKET NO.	50-530
UNIT NAME	PVNGS-3
DATE	10/10/89
COMPLETED BY	K. F. Porter
TELEPHONE	(602) 371-4187

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- Scheduled date for next refueling shutdown.
 03/07/91, 2nd refueling.
- 2. Scheduled date for restart following refueling.

06/10/91

- 3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
 - To be determined.
- 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, new operating procedures.

The fuel vendor for the next reload will be Combustion Engineering.

- 6. The number of fuel assemblies
 - a) In the core. <u>241</u>
 - b) In the spent fuel storage pool. <u>104</u>

7. Licensed spent fuel storage capacity. <u>1329</u>

Intended change in spent fuel storage capacity. <u>None</u>

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).



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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

50-530		
PVNGS-3		
10/10/89		
K, F. Porter		
(602) 371-4187		

SEPTEMBER 1989

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09/01 0000	Unit began mon	h in Mode 5,	lst	Refueling	Outage.
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09/30 2400 Unit ended month in Mode 5.



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SHUTDOWNS AND POWER REDUCTIONS

50-530				
PVNGS-3				
10/10/89				
K. F. Porter*				
(602) 371-4187				

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No. Date		Type ¹	Duration Hours	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵		Cause and Corrective Action to Prevent Recurrence	
NO. 89/03	03/08/89) S	720	C	4	N/A	N/A	N//	A -	Continuation outage.	of unit refueling
1 F- S-	Forced Scheduled	2 Rea A-H B-M C-F D-F E-C F-A G-C H-C	ason: Equipment Fail Maintenance or Refueling Regulatory Res Operator Train Administrative Operational En Other (Explain	ure (Expla Test triction ning & Lice ror	in) nse Examination	3 Method 1-Manu 2-Manu 3-Auto 4-Cont Prev 5-Redu or G Past	: al Scram matic Scr inuation ious Mont ction of reater in 24 Hours	am from h 20% the	4	Exhibit F-Inst for Preparation Entry Sheets for Event Report (1 (NUREG 0161) Exhibit H-Same	ructions n of the Data or Licensee LER) File Source
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