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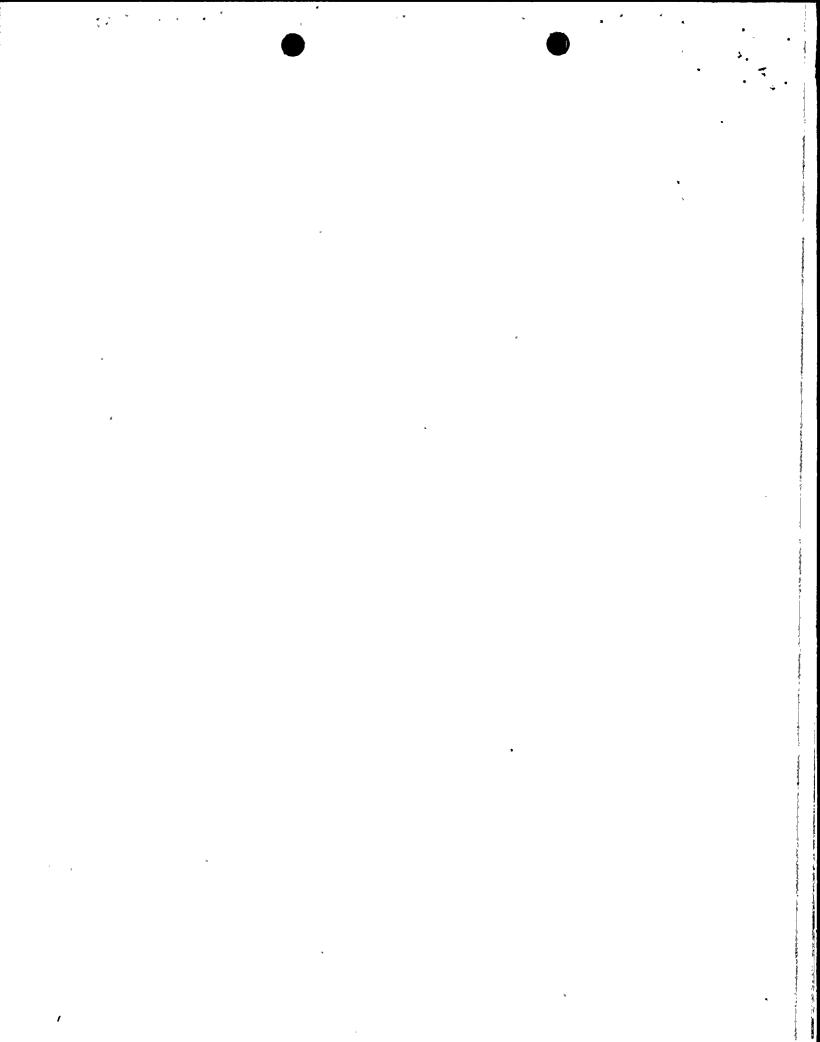
REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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

254-01024-JML/KFP July 13, 1990

Docket Nos. STN 50-528/529/530

Document Control Desk
U. S. Nuclear Regulatory Commission
Mail Station P1-37
Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station (PVNGS)

Units 1, 2, and 3

Monthly Operating Reports for June 1990

File: 90-024-404

Attached are the Monthly Operating Reports for June 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. F. Porter, at (602) 340-4187.

Very truly yours,

J. M. Levine Wice President

Nuclear Production

JML/KFP Attachments

cc: S. Peterson

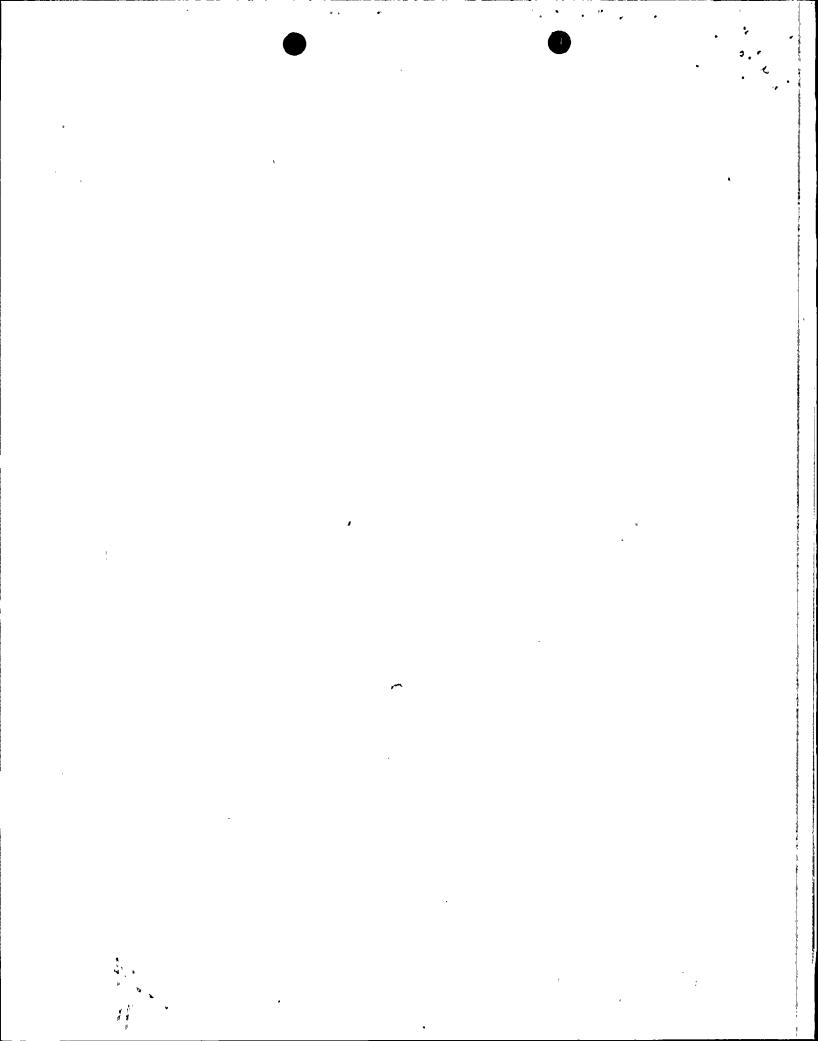
(all w/attachments)

J. B. Martin

D. H. Coe

INPO Records Center

9007180323 900630 PDR ADOCK 05000528 R PDC 1624 1/1



NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528 UNIT NAME PVNGS-1 07/09/90 DATE COMPLETED BY K.F. Porter (602) 340-4187 TELEPHONE

OPERATING STATUS

- Unit Name: Palo Verde Nuclear Generating Station, Unit 1 1.
- 2. Reporting Period: June 1990
- Licensed Thermal Power (MWt): 3800 3.
- Nameplate Rating (Gross MWe): 4.
- 5. Design Electrical Rating (Net MWe): 1270
- Maximum Dependable Capacity (Gross MWe): 1303 6.
- Maximum Dependable Capacity (Net MWe): 1221 7.
- If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7) 8.

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

11.	Hours in Reporting Period	This Month	Yrto-Date 4,344	Cumulative 38,760
12.	Number of Hours Reactor			
	Was Critical	<u> 137.6</u>	137.6	17,399.7
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0,0
14.	Hours Generator On-Line	0.0	0.0	16,826,9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0,0
16.	Gross Thermal Energy		•	
	Generated (MWH)	10,825	10,825	60,942,046
17.	Gross Electrical Energy		•	-
	Generated (MWH)	0	0	21,163,100
18.	Net Electrical Energy			
	Generated (MWH)	0	0	19,793,190
19.	Unit Service Factor	0.0%	0.0%	43,4%
20.	Unit Availability Factor	0.0%	0.0%	43,4%
21.	Unit Capacity Factor			
ı	(Using MDC Net)	0.0%	0.0%	41.8%
22.	Unit Capacity Factor			
	(Using DER Net)	0,0%	0,0%	40,2%
23.	Unit Forced Outage Rate	0.0%	80.0	28.1 %
24.	Shutdowns Scheduled Over Next 6 Mont	ths (Type, Date and	Duration of Each)	:

N/A

If Shutdown At End of Report Period, Estimated Date of Start-up: 25. July 5, 1990 (Actual Start-up Date)

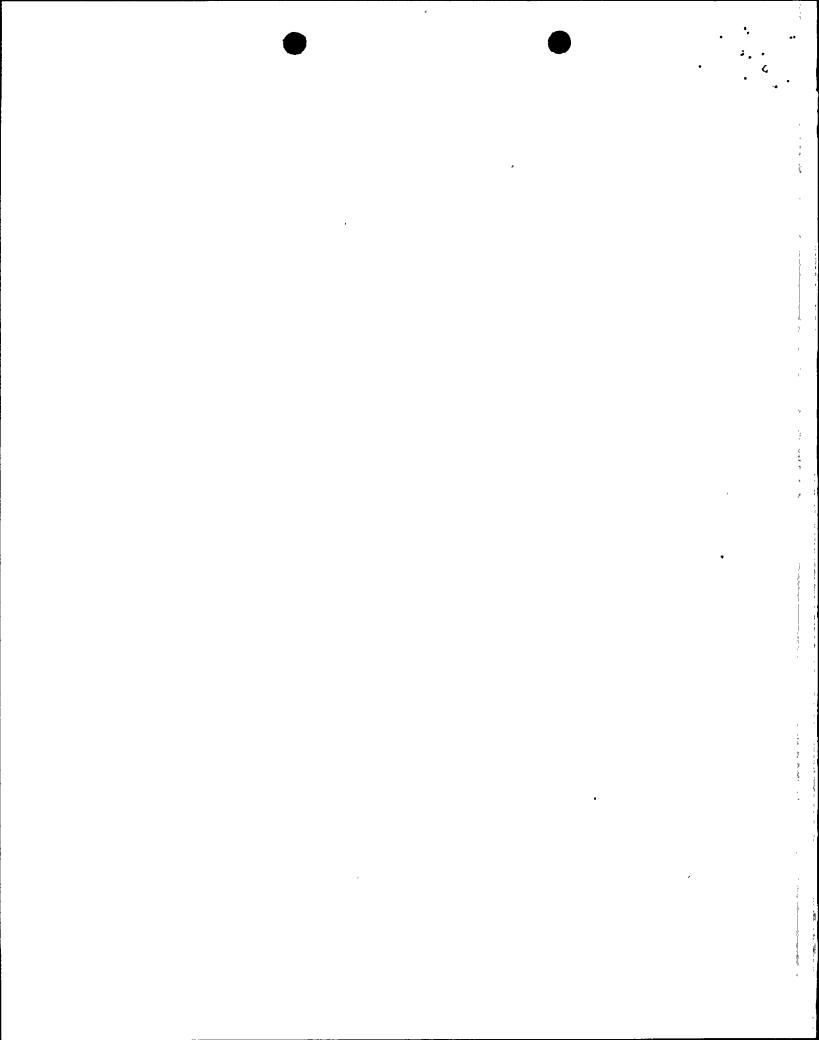
INITIAL	CRITICALITY
INITIAL	ELECTRICITY
COMMERCI	AL OPERATION

Forecast	
05/85	
06/85	
11 /05	

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 07/09/90
COMPLETED BY K.F. Porter
TELEPHONE (602) 340-4187

MONT	H: JUNE 1990		
DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1 .	0	17 .	0
2 .	00	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 .	0
9 .	0	25 .	0
10	0	26	0
11	0	27	0
12		28	0
13 .	0	29 .	0
14	0	` 30 .	0
15 .	0		,
16	0		



REFUELING INFORMATION

50-528

PVNGS-1

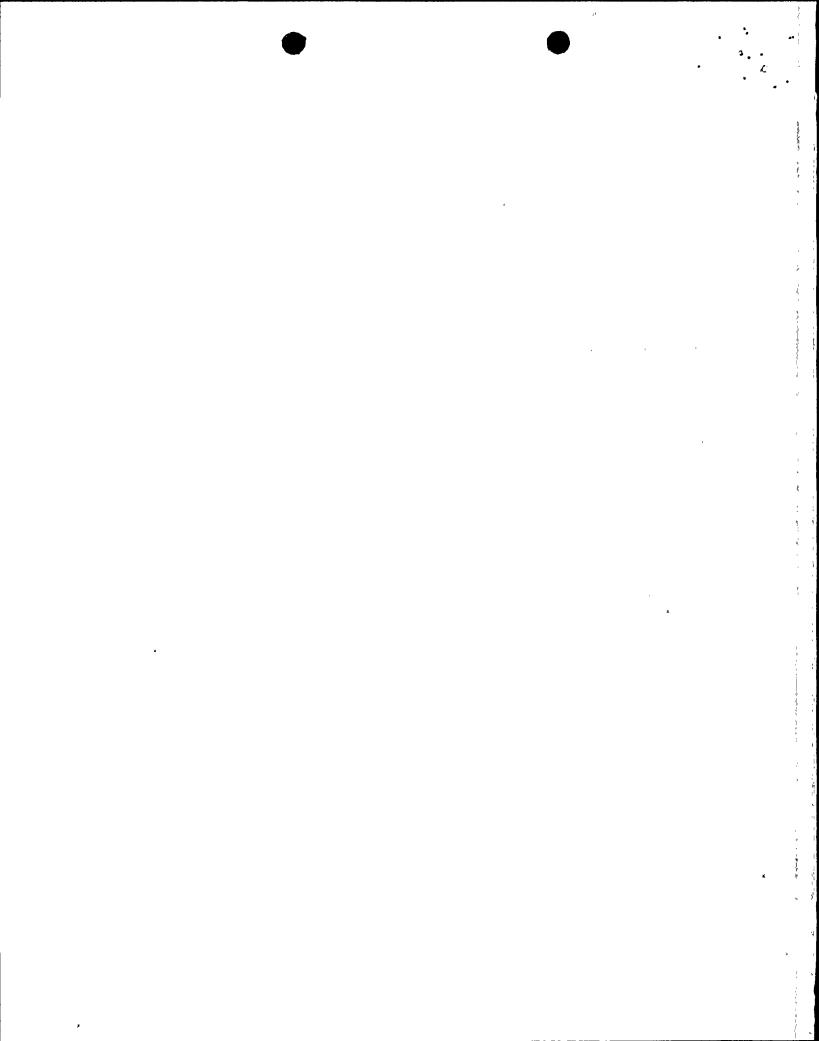
07/09/90

DOCKET NO.

UNIT NAME

COMPLETED BY K.F. Porter (602) 340-4187 TELEPHONE Scheduled date for next refueling shutdown. 1. 02/01/92, 3rd refueling. Scheduled date for restart following refueling. 2. 04/11/92 Will refueling or resumption of operation thereafter require a Technical Specification 3. change or other license amendment? To be determined. Scheduled date for submitting proposed licensing action and supporting information. 4. 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. The number of fuel assemblies. 6. In the core. 1.88 In the spent fuel storage pool. 7. Licensed spent fuel storage capacity. _____1329_ Intended change in spent fuel storage capacity. None Projected date of last refueling that can be discharged to spent fuel storage pool 8. assuming present capacity.

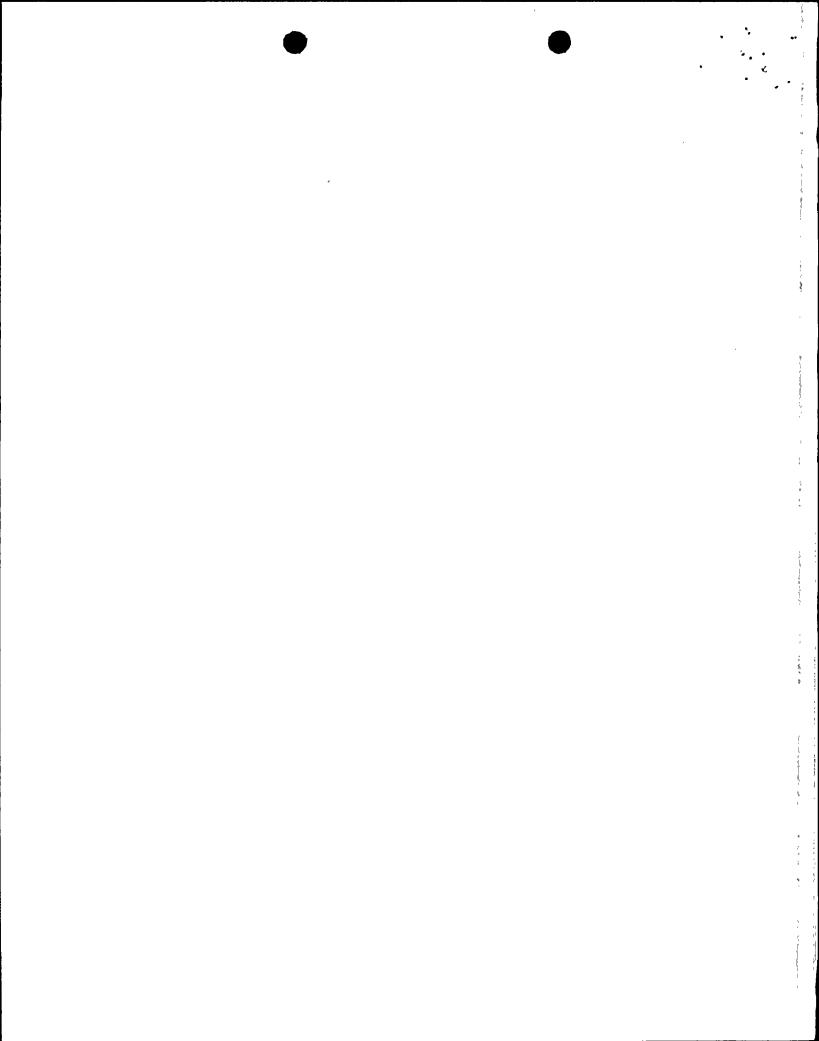
2004 (18 Month reloads and full core discharge capability).



SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	50-528		
UNIT NAME	PVNGS-1		
DATE	07/09/90		
COMPLETED BY	K.F. Porter		
TELEPHONE	(602) 340-4187		

<u>June 1990</u>		
06/01	00:00	Unit began the month in Mode 5, 2nd Refueling Outage.
06/13	18:41	Unit entered Mode 4.
06/14	14:10	Unit entered Mode 3.
06/24	19:55	Unit entered Mode 2, low power physics testing.
06/25	08:53	Unit entered Mode 3, planned RX trip during low power physics testing.
06/25	19:21	Unit entered Mode 2, continuation of low power physics testing.
06/30	02:26	Unit entered Mode 1.
06/30	24:00	Unit ended the month in Mode 1, 2nd Refueling Outage.



SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO 50-528

UNIT NAME PVNGS-1

DATE 07/09/90

COMPLETED BY K.F. Porter

TELEPHONE (602) 340-4187

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	Continuation of 2nd refueling outage.

¹ F-Forced	² Reason:	Method:	Exhibit F-Instructions
S-Scheduled	A-Equipment Failure(Explain)	1-Manual	for Preparation of the Data
	B-Maintenance or Test	2-Manual Scram	Entry Sheets for Licensee
	C-Refueling	3-Automatic Scram	Event Report (LER) File
	D-Regulatory Restriction	4-Continuation from	(NUREG 0161)
	E-Operator Training & License	Previous Month	
	Examination	5-Reduction of 20% or	
	F-Administrative	Greater in the Past	⁵ Exhibit H-Same Source
	G-Operational Error	24 Hours	
	H-Other (Explain)	9-Other-(Explain)	

NRC MONTHLY OPERATING REPORT

 DOCKET NO.
 50-529

 UNIT NAME
 PVNGS-2

 DATE
 07/09/90

 COMPLETED BY
 K.F. Porter

 TELEPHONE
 (602) 340-4187

OPERATING STATUS

- 1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
- 2. Reporting Period: <u>June 1990</u>
- 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	Yrto-Date	Cumulative
11.	Hours in Reporting Period	<u>720</u>	4,344	33,144
12.	Number of Hours Reactor			
	Was Critical	0.0	1,295,0	20,546,1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0,0
14.	Hours Generator On-Line	0.0	1,295.0	20,042.2
15.	Unit Reserve Shutdown Hours	0.0	0,0	0.0
16.	Gross Thermal Energy			
	Generated (MWH)	0	4,870,700	73,499,053
17.	Gross Electrical Energy			
	Generated (MWH)	0	1,712,500	25,682,370
18.	Net Electrical Energy			
	Generated (MWH)	0	1,614,008	23,996,820
19.	Unit Service Factor	0.0%	29.8%	60.5%
20.	Unit Availability Factor	0.0%	29.8%	60.5%
21.	Unit Capacity Factor			
	(Using MDC Net)	0.0%	30.4%	<u>59.3%</u>
22.	Unit Capacity Factor			
	(Using DER Net)	0.0%	29.3%	57.0%
23.	Unit Forced Outage Rate	0.0%	0.0%	9,9%
24.	Shutdowns Scheduled Over Next 6 Mon	ths (Type, Date a	nd Duration of Eac	h):
	N/A			

25. If Shutdown At End of Report Period, Estimated Date of Start-up: July 16, 1990

INITIAL	CRITICALITY
INITIAL	ELECTRICITY
COMMERCI	AL OPERATION

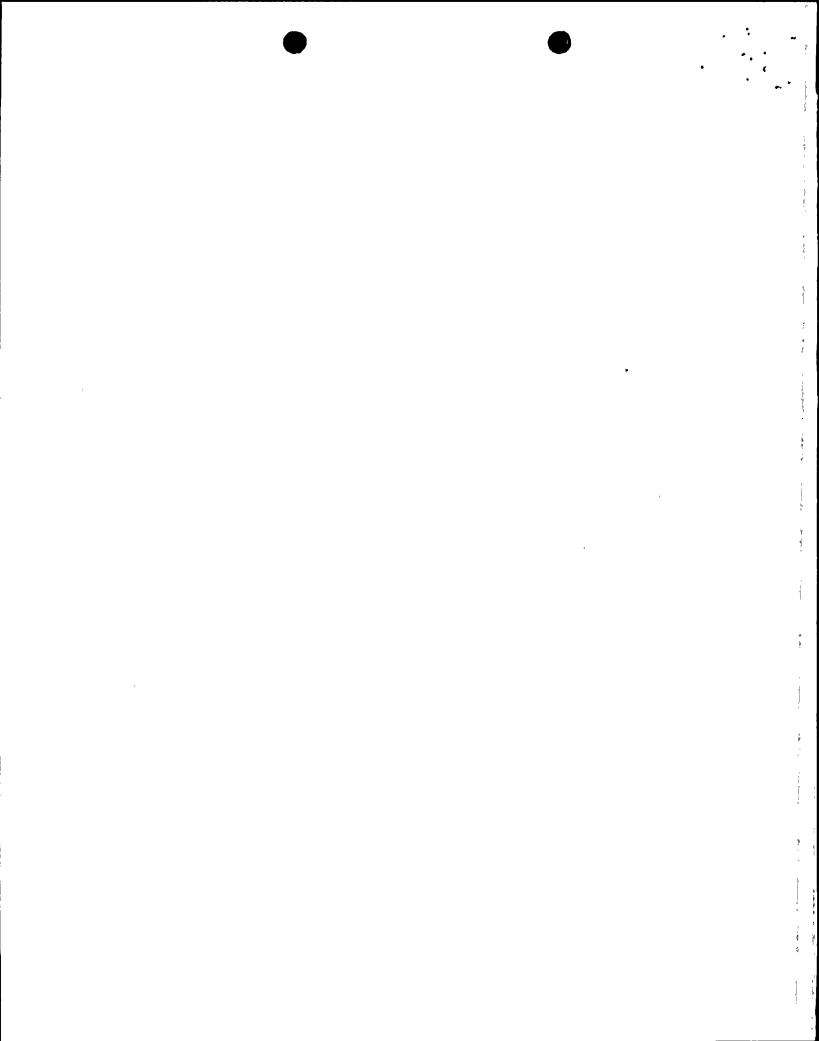
Forecast
_03/86
06/86
11/86

Achieved 04/18/86 05/20/86 09/19/86

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-529
UNIT NAME	PVNGS-2
DATE	07/09/90
COMPLETED BY	K.F. Porter
TELEPHONE	(602) 340-4187

1		
H: JUNE 1990		
AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
00	. 17	0
0	. 18	0
00	. 19	0
0	. 20	0
0	. 21 .	0
0	. 22 _	0
0	. 23 .	0
0	. 24 _	0
0	. 25 .	0
0	. 26 .	0
0	. 27 _	0
0	. 28 .	0
0	. 29 _	0
0	. 30 _	0
0		
0		
	AVERAGE DATLY POWER LEVEL	AVERAGE DAILY POWER LEVEL 0



REFUELING INFORMATION

DOCKET NO.

UNIT NAME

DATE

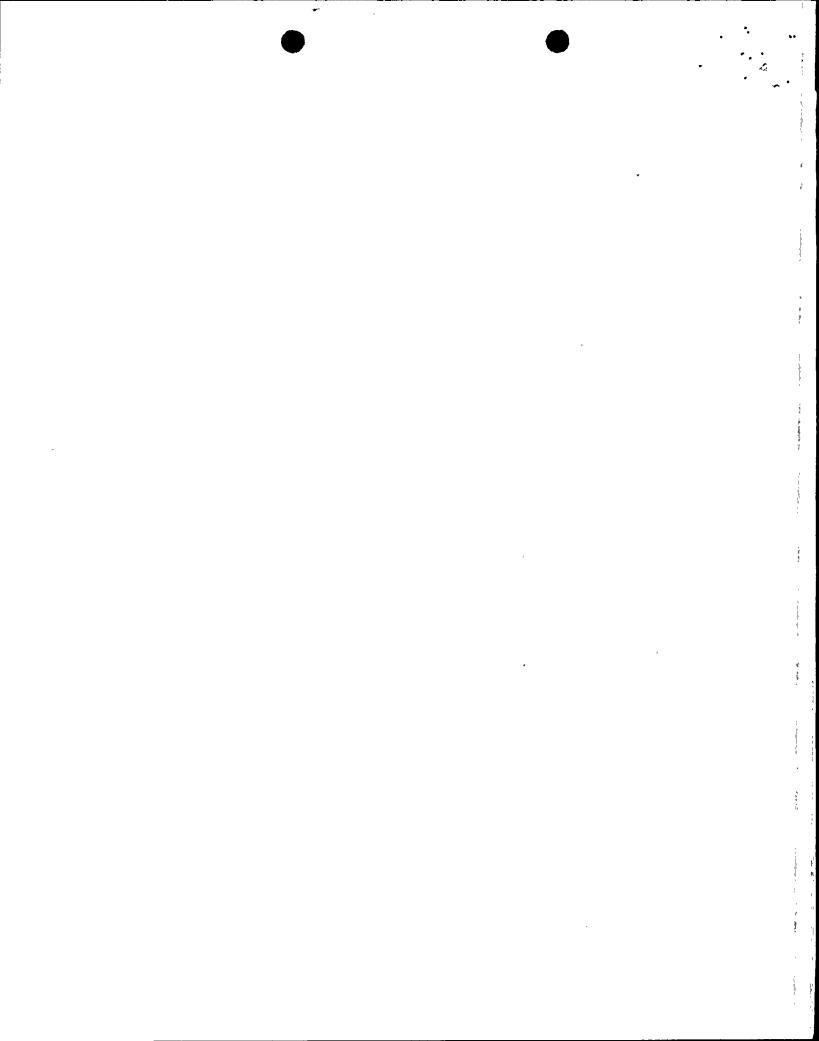
50-529

PVNGS-2

07/09/90

COMPLETED BY K.F. Porter (602) 340-4187 TELEPHONE Scheduled date for next refueling shutdown. 1. 10/17/91, 3rd refueling. 2. Scheduled date for restart following refueling. 12/26/91 Will refueling or resumption of operation thereafter require a Technical Specification 3. change or other license amendment? To be determined. Scheduled date for submitting proposed licensing action and supporting information. 4. To be determined. Important Licensing considerations associated with refueling, e.g., new or different fuel 5. 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. In the core. 241 a) 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.

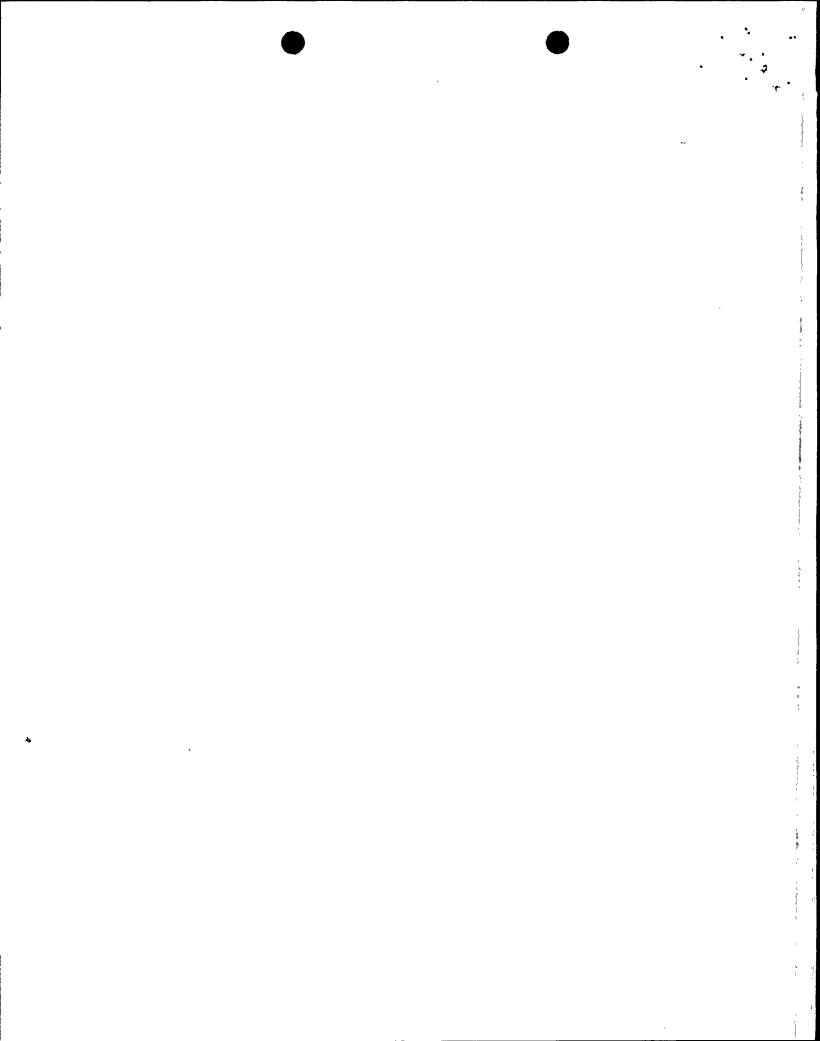
2004 (18 Month reloads and full core discharge capability).



SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	50-529
UNIT NAME	PVNGS-2
DATE	07/09/90
COMPLETED BY	K,F, Porter
TELEPHONE	(602) 340-4187

<u>June 1990</u>		
06/01	00:00	Unit began the month in Mode 6, 2nd Refueling Outage.
06/03	11:24	Unit entered Mode 5.
06/30	24.00	Unit ended the month in Mode 5 2nd Refueling Outage.

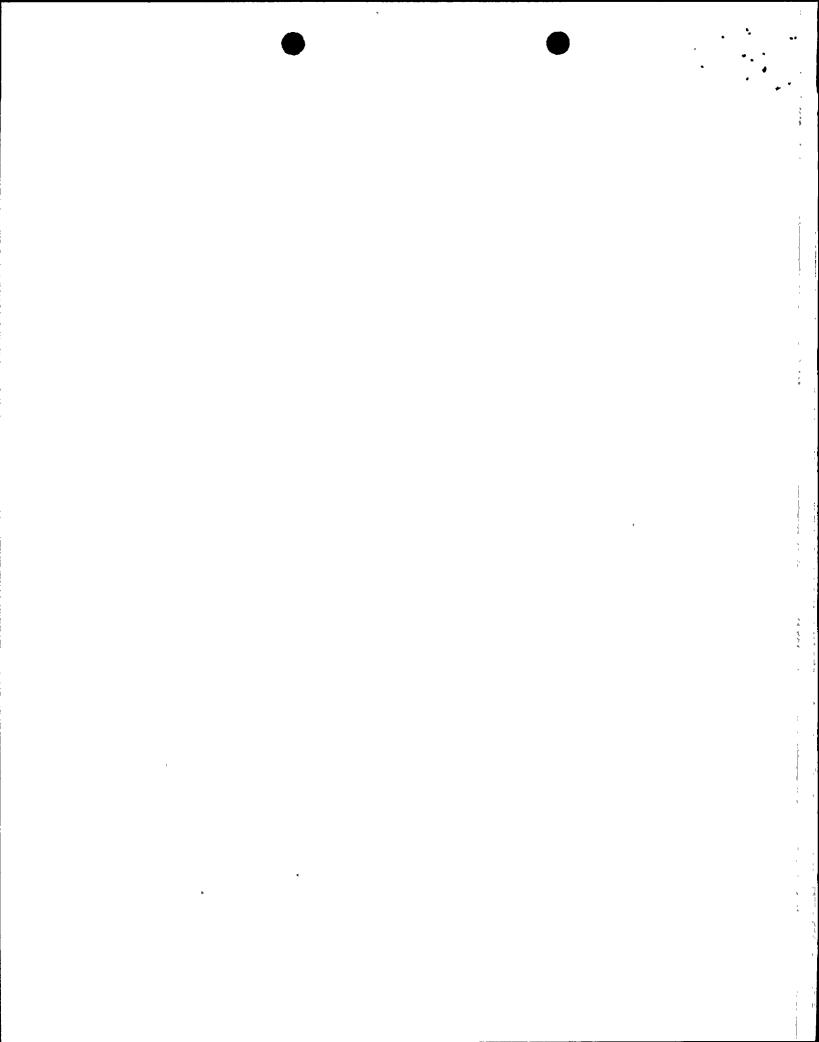


SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO	50-529
UNIT NAME	PVNGS-2
DATE	07/09/90 _ `
COMPLETED BY	K.F. Porter
TELEPHONE	(602) 340-4187

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
90/01	02/23/90	s	720	С	4	N/A	N/A	N/A	Continuation of 2nd Refueling Outage.

¹ F-Forced	² Reason:	³ Method:	Exhibit F-Instructions
S-Scheduled	A-Equipment Failure(Explain) B-Maintenance or Test C-Refueling D-Regulatory Restriction E-Operator Training & License		for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)
	Examination F-Administrative G-Operational Error H-Other (Explain)	5-Reduction of 20% or Greater in the Past 24 Hours 9-Other-(Explain)	⁵ Exhibit H-Same Source



NRC MONTHLY OPERATING REPORT

DOCKET NO.	50-530
UNIT NAME	PVNGS-3
DATE	07/09/90
COMPLETED BY	K.F. Porter
TELEPHONE	(602) 340-4187

OPERATING STATUS

- 1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
- 2. Reporting Period: June 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	Yrto-Date	Cumulative
11.	Hours in Reporting Period	720	4,344	21,720
12.	Number of Hours Reactor			
	Was Critical	720.0	3,813,2	13,224,4
13.	Reactor Reserve Shutdown Hours	0.0	0,0	0,0
14.	Hours Generator On-Line	720.0	3,714,7	12,988.7
15.	Unit Reserve Shutdown Hours	0,0	0.0	0.0
16.	Gross Thermal Energy			
	Generated (MWH)	2,723,341	13,061,555	47,471,946
17.	Gross Electrical Energy	.		
	Generated (MWH)	954,400	4,583,100	16,650,900
18.	Net Electrical Energy			
	Generated (MWH)	901,098	4,291,203	15,654,668
19.	Unit Service Factor	100,0%	85,5%	59.8%
20.	Unit Availability Factor	100,0%	85,5%	59,8%
21.	Unit Capacity Factor			
	(Using MDC Net)	<u>102,5%</u>	80,9%	<u>59.0%</u>
22.	Unit Capacity Factor			
	(Using DER Net)	98.5%	77,8%	<u>56,8</u> %
23.	Unit Forced Outage Rate	0.0%	14.48	10.9%
24.	Shutdowns Scheduled Over Next 6 Mont	hs (Type, Date and	d Duration of Each)	:
	N/A			

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

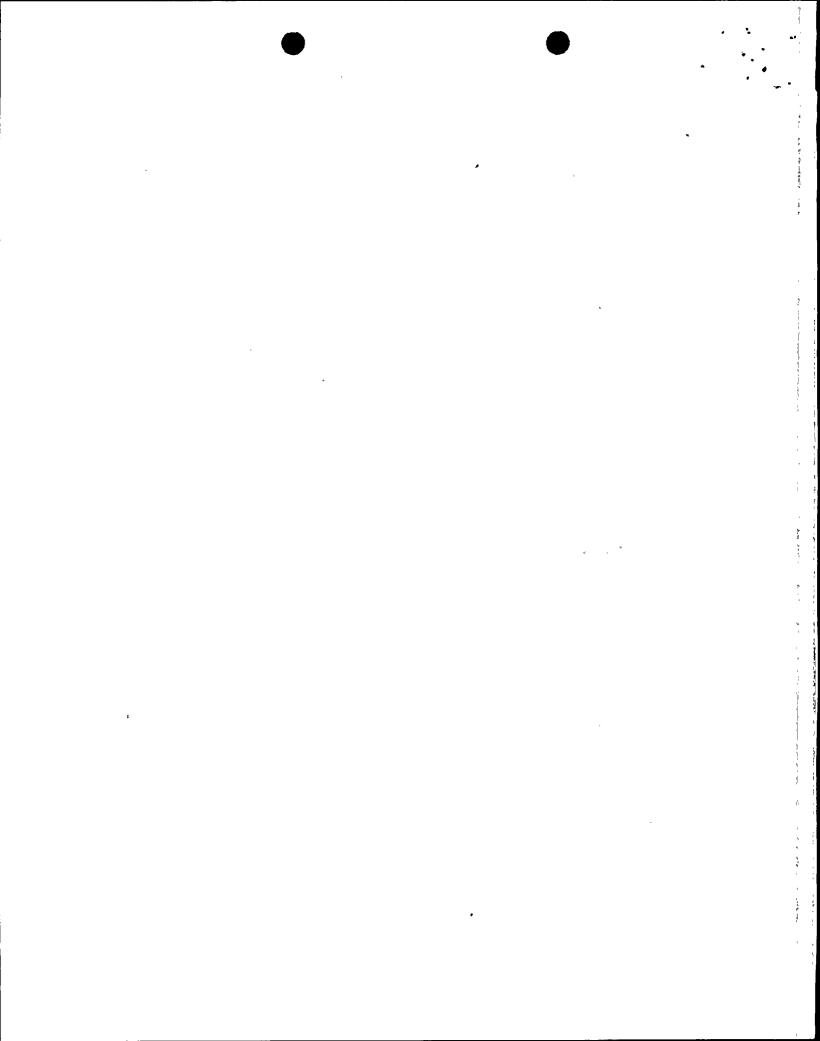
INITIAL	CRITICALITY
INITIAL	ELECTRICITY

COMMERCIAL OPERATION

N/A

Forecast
07/87
07/87
09/87

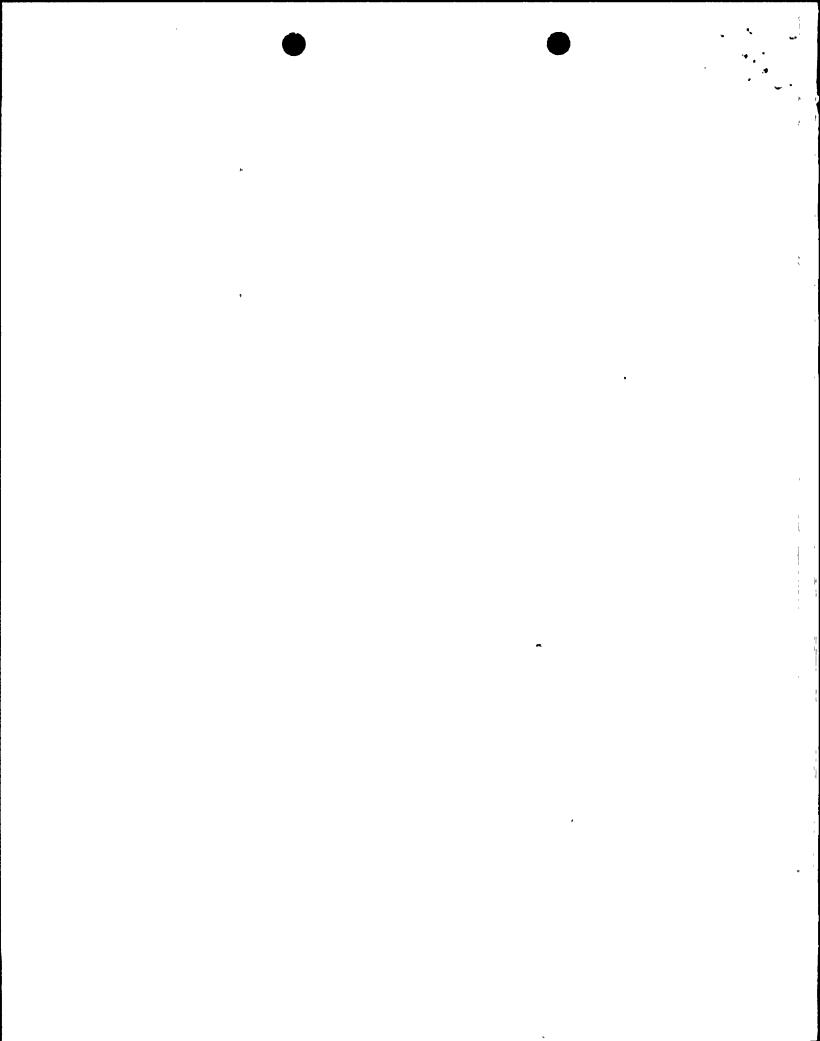
Achieved 10/25/87 11/28/87 01/08/88



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-530
UNIT NAME	PVNGS-3
DATE	07/09/90
COMPLETED BY	K.F. Porter
TELEPHONE	(602) 340-4187

MONT	H: JUNE 1990			
DAY	AVERAGE DAILY POWER LEVEL		DAY	AVERAGE DAILY POWER LEVEL
1 .	1261		17 _	1252
2 .	1261		18 _	1252
3 .	1259		19 _	1251
4 .	1254		20 _	1249
5 .	1252		21 _	. 1249
6 .	1255		22 _	1248
7 .	1255		23 _	1245
8 .	1248		24	1241
9 .	1219	•	25 _	1240
10 .	1245		26 _	1241
11 .	1251		27 _	1243
12 .	1248		28 _	1243
13 .	1249		29 _	1240
14 .	1253		30 _	1245
15 .	1252	4		
16	1256	t		



REFUELING INFORMATION

<u>50-53</u>0

PVNGS-3

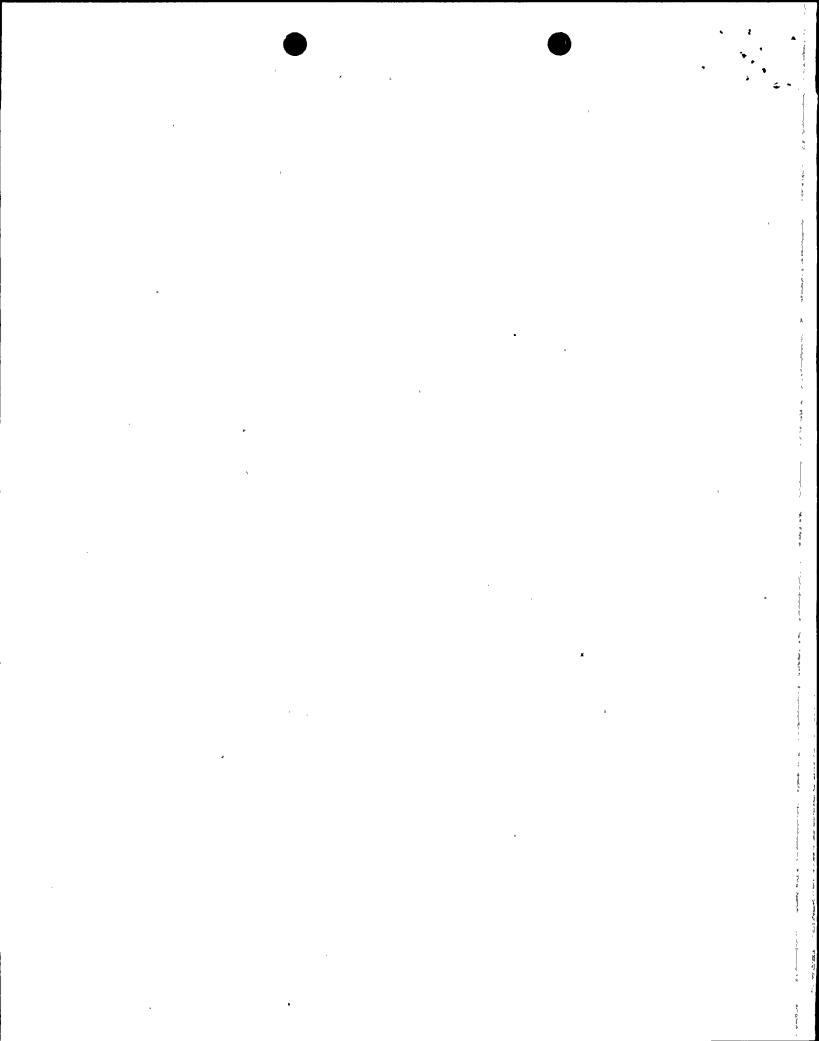
07/09/90

DOCKET NO.

UNIT NAME

DATE

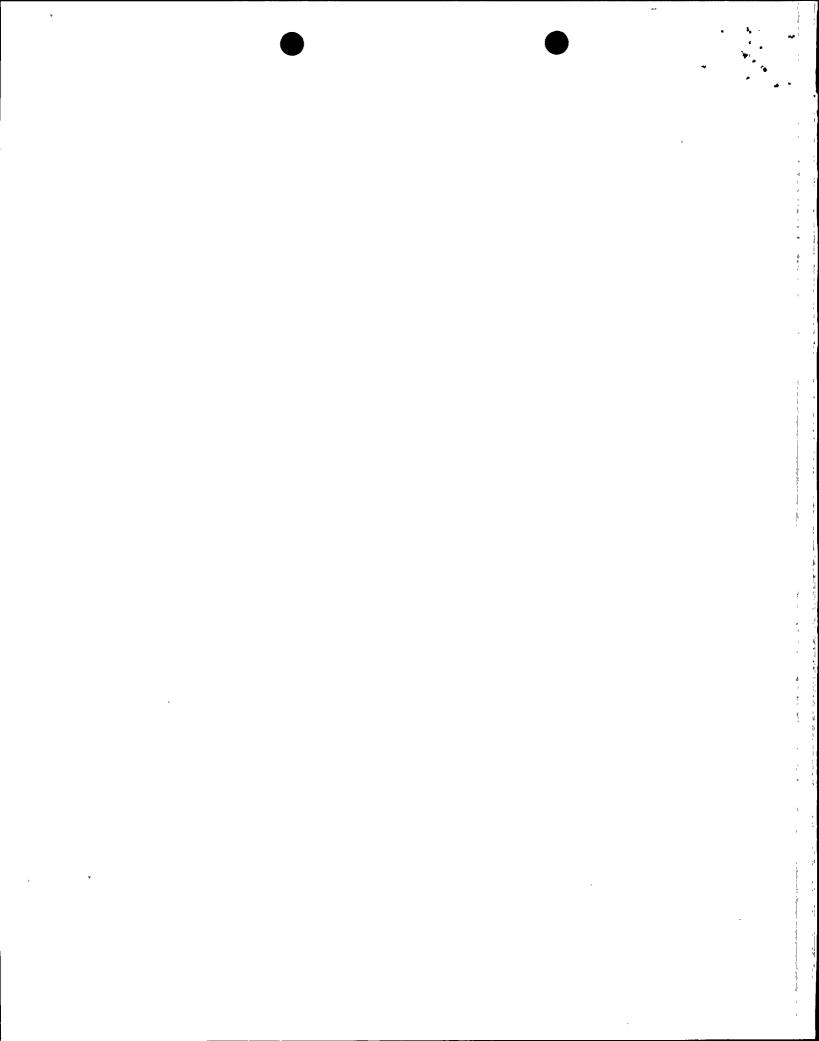
COMPLETED BY K.F. Porter (602) 340-4187 TELEPHONE Scheduled date for next refueling shutdown. 1. 03/16/91, 2nd refueling. 2. Scheduled date for restart following refueling. 05/25/91 Will refueling or resumption of operation thereafter require a Technical Specification 3. change or other license amendment? To be determined. Scheduled date for submitting proposed licensing action and supporting information. 4. 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. 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	07/09/90		
COMPLETED BY	K.F. Porter		
TELEPHONE	(602) 340-4187		

<u>June 1990</u>	
06/01 00:00	Unit began the month in Mode 1, 100% RX power.
06/09 05:00	Began RX power reduction to 95% for planned valve testing.
06/09 13:27	Unit back at 100% RX power.
06/30 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
 07/09/90

 COMPLETED BY K.F. Porter

 TELEPHONE
 (602) 340-4187

					Method of				Cause and Corrective
			Duration		Shutting		System	Component	Action to
No.	Date	Type ¹	Hours	Reason ²	Down Reactor ³	LER No.	Code ⁴	Code ⁵	Prevent Recurrence

No outages or power reductions of greater than 20% occurred during the month.

¹ F-Forced	² Reason:
S-Scheduled	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)

Exhibit F-Instructions

for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

⁵Exhibit H-Same Source

