

ENCLOSURE 1

**MONTHLY OPERATING REPORTS
FOR FEBRUARY 1995**

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2. The first of these is the
fact that the majority of the
population of the United States
is now living in urban areas.

3. The second is the fact that
the majority of the population
of the United States is now
living in urban areas.

4. The third is the fact that
the majority of the population
of the United States is now
living in urban areas.

5. The fourth is the fact that
the majority of the population
of the United States is now
living in urban areas.

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 03/10/95
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 393-6221

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: February 1995
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	672	1416	79,656
12.	Hours Reactor was Critical	672.0	1416.0	52,048.8
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	672.0	1416.0	51,072.6
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,552,287	5,361,037	184,443,055
17.	Gross Electrical Energy Generated (MWH)	882,100	1,852,600	63,899,100
18.	Net Electrical Energy Generated (MWH)	832,872	1,750,393	59,981,299
19.	Unit Service Factor (%)	100.0%	100.0%	64.1%
20.	Unit Availability Factor (%)	100.0%	100.0%	64.1%
21.	Unit Capacity Factor (Using MDC Net)	101.5%	101.2%	61.7%
22.	Unit Capacity Factor (Using DER Net)	97.6%	97.3%	59.3%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	13.2%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): Refueling outage
scheduled to begin 4/1/95 with a 70 day duration.

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

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

Forecast
05/85
06/85
11/85

Achieved
05/25/85
06/10/85
01/28/86

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>03/10/95</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 393-6221</u>

MONTH: February 1995

DAY	AVERAGE DAILY POWER LEVEL
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1	1249
2	1246
3	1245
4	1247
5	1247
6	1247
7	1244
8	1241
9	1242
10	1244
11	1247
12	1247
13	1245
14	1242
15	1243
16	1244

DAY	AVERAGE DAILY POWER LEVEL
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17	1234
18	1243
19	1246
20	1246
21	1244
22	1244
23	1245
24	1242
25	1245
26	1246
27	1247
28	1246

REFUELING INFORMATION

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>03/10/95</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 393-6221</u>

1. Scheduled date for next refueling shutdown.

The 5th refueling outage is tentatively scheduled for 04/01/95.

2. Scheduled date for restart following refueling.

06/10/95.

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.

12/28/94

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 fuel assembly will utilize Erbium as a burnable absorber (as was done for Units 2 and 3).

6. The number of fuel assemblies.

- a) In the core. 241
b) In the spent fuel storage pool. 368

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>03/10/95</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 393-6221</u>

February 1995

02/01	0000	Unit began the month in Mode 1 with 100% power.
02/03	0046	Reduced Rx power to 99% as required to perform HI Rate Steam Generator Blow Down.
02/03	0154	Increased Rx power to 100%.
02/10	0110	Reduced Rx power to 99% as required to perform HI Rate Steam Generator Blow Down.
02/10	0240	Increased Rx power to 100%.
02/17	0005	Reduced Rx power to 99% as required to perform HI Rate Steam Generator Blow Down.
02/17	0021	During power decrease for HI Rate Steam Generator Blow Down, experienced a step power reduction of approximately 5% Rx power. SBCV#1 opened to approximately 15%.
02/17	0022	Rx Power stabilized at approximately 99% power.
02/17	1740	Commenced power increase from 99% to 100%.
02/17	1815	Rx power is at 100%.
02/18	0115	Commenced power reduction in preparation to perform control valve testing.
02/18	0120	Stabilized power at 97.5%.
02/18	0240	Stabilized power at 100%.
02/24	0030	Reduced Rx power to 99% as required to perform HI Rate Steam Generator Blow Down.
02/24	0325	Increased Rx power to 100%.
02/28	2359	Ended month at 100% power.

SHUTDOWNS AND POWER REDUCTIONS
February 1995

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 03/10/95
COMPLETED BY B. S. Ecklund
TELEPHONE (602)393-6221

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
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No reactor shutdowns or significant power reductions occurred during the month of February 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 03/10/95
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 393-6221

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: February 1995
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	672	1416	74,040
12.	Hours Reactor was Critical	72.1	816.1	51,467.8
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	72.1	816.1	50,417.0
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	268,987	3,089,374	183,333,281
17.	Gross Electrical Energy Generated (MWH)	92,600	1,069,300	63,800,770
18.	Net Electrical Energy Generated (MWH)	81,859	1,000,600	59,694,495
19.	Unit Service Factor (%)	10.7%	57.6%	68.1%
20.	Unit Availability Factor (%)	10.7%	57.6%	68.1%
21.	Unit Capacity Factor (Using MDC Net)	10.0%	57.9%	66.0%
22.	Unit Capacity Factor (Using DER Net)	9.6%	55.6%	63.5%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	5.9%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): Refueling outage began 2/4/95 with a 60 day duration.

25. If Shutdown At End of Report Period, Estimated Date of Start-up: 4/5/95

	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 03/10/95
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 393-6221

MONTH: February 1995

DAY	AVERAGE DAILY POWER LEVEL
1	1234
2	1233
3	1176
4	1
5	0
6	0
7	0
8	0
9	0
10	0
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	0
24	0
25	0
26	0
27	0
28	0

REFUELING INFORMATION

DOCKET NO.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>03/10/95</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 393-6221</u>

1. Scheduled date for next refueling shutdown.

02/04/95, 5th refueling outage.

2. Scheduled date for restart following refueling.

04/05/95.

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

- a. Technical Specification 3.9.6 will be changed to raise the overload cutoff limit to accommodate the new fuel assembly modification.
- b. Technical Specification 3.4.2.1 will be modified to lower the PSV lift setting from 2500 psia to 2475 psia.
- c. Technical Specification change to Note 5 of Table 4.3-1 for the proposed installation of a cycle independent shape annealing matrix.

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

10/27/94.

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 fuel assembly will consist of a denser fuel pellet, Erbium burnable absorber and guardian grid

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.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>03/10/95</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 393-6221</u>

February 1995

02/01	0000	Unit began the month in Mode 1 at 100% power.
02/03	2030	Commenced a normal plant shutdown for refueling outage.
02/04	0003	Manually tripped the Reactor; Entered Mode 3.
02/04	1606	Entered Mode 4.
02/05	0415	Entered Mode 5.
02/08	0201	Entered Mode 6.
02/14	0455	The Reactor is de-fueled.
02/28	2359	Ended the month with Reactor de-fueled.

SHUTDOWNS AND POWER REDUCTIONS
February 1995

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 03/10/95
COMPLETED BY B. S. Ecklund
TELEPHONE (602)393-6221

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
95-01	02/04	S	599.9	C	2	N/A	N/A	N/A	Rx manually tripped to begin the fifth refueling outage.

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 03/10/95
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 393-6221

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: February 1995
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	672	1,416	62,616
12.	Hours Reactor was Critical	672.0	1416.0	46,430.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	672.0	1416.0	45,763.5
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,552,770	5,358,739	167,135,672
17.	Gross Electrical Energy Generated (MWH)	886,500	1,866,500	58,398,200
18.	Net Electrical Energy Generated (MWH)	838,242	1,762,896	54,885,603
19.	Unit Service Factor (%)	100.0%	100.0%	73.1%
20.	Unit Availability Factor (%)	100.0%	100.0%	73.1%
21.	Unit Capacity Factor (Using MDC Net)	102.2%	102.0%	71.8%
22.	Unit Capacity Factor (Using DER Net)	98.2%	98.0%	69.0%
23.	Unit Forced Outage Rate (%)	0.0%	0.0%	6.0%

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
INITIAL ELECTRICITY
COMMERCIAL OPERATION

Forecast
07/87
07/87
09/87

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>03/10/95</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 393-6221</u>

MONTH: February 1995

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1258	17	1252
2	1256	18	1251
3	1256	19	1254
4	1254	20	1255
5	1248	21	1254
6	1255	22	1255
7	1254	23	1254
8	1254	24	1252
9	1255	25	1252
10	1254	26	1254
11	1253	27	1254
12	1253	28	1254
13	1252		
14	1250		
15	1249		
16	1252		

REFUELING INFORMATION

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>03/10/95</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 393-6221</u>

1. Scheduled date for next refueling shutdown.
10/14/95 5th refueling.
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?
To be determined.
4. Scheduled date for submitting proposed licensing action and supporting information.
June 1995, if required.
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>03/10/95</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 393-6221</u>

February 1995

02/01	0000	Began the month with unit in Mode 1 at 100% power.
02/05	0140	Reduced power to 99% as required to perform HI Rate Steam Generator Blow Down.
02/05	0515	Returned Rx power to 100%.
02/12	0138	Reduced power to 99% as required to perform HI Rate Steam Generator Blow Down.
02/12	0309	Returned Rx power to 100%.
02/18	2212	Reduced power to 99% as required to perform HI Rate Steam Generator Blow Down.
02/18	2355	Returned Rx power to 100%.
02/23	0122	Commenced down power for main turbine control valve testing.
02/23	0130	Rx power is at 98%.
02/23	0143	Commenced power increase from 98% to 100%.
02/23	0155	Completed power increase - Rx power is at 100%.
02/25	2227	Reduced power to 99% as required to perform HI Rate Steam Generator Blow Down.
02/25	2344	Increased Rx power to 100%.
02/28	2359	Ended month at 100% power.

SHUTDOWNS AND POWER REDUCTIONS
February 1995

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 03/10/95
COMPLETED BY B. S. Ecklund
TELEPHONE (602)393-6221

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
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No reactor shutdowns or significant power reductions occurred during the month of February 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)

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