DEMONSTRATION

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:880	1200133 DOC.DATE: 89/12/31 NOTARIZED: NO	DOCKET #
FACIL:STN-50-528	Palo Verde Nuclear Station, Unit 1, Arizona Publi	05000528
STN-50-529	Palo Verde Nuclear Station, Unit 2, Arizona Publi	05000529
STN-50-530	Palo Verde Nuclear Station, Unit 3, Arizona Publi	05000530
AUTH.NAME	AUTHOR AFFILIATION	
HULL, J.L.	Arizona Nuclear Power Project (formerly Arizona Pub	olic Serv

Arizona Nuclear Power Project (formerly Arizona Public Serv HAYNES, J.G. RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Dec 1987(W/880113

ENGL SIZE: -DISTRIBUTION CODE: IE24D COPIES RECEIVED:LTR TITLE: Monthly Operating Report (per Tech Specs)

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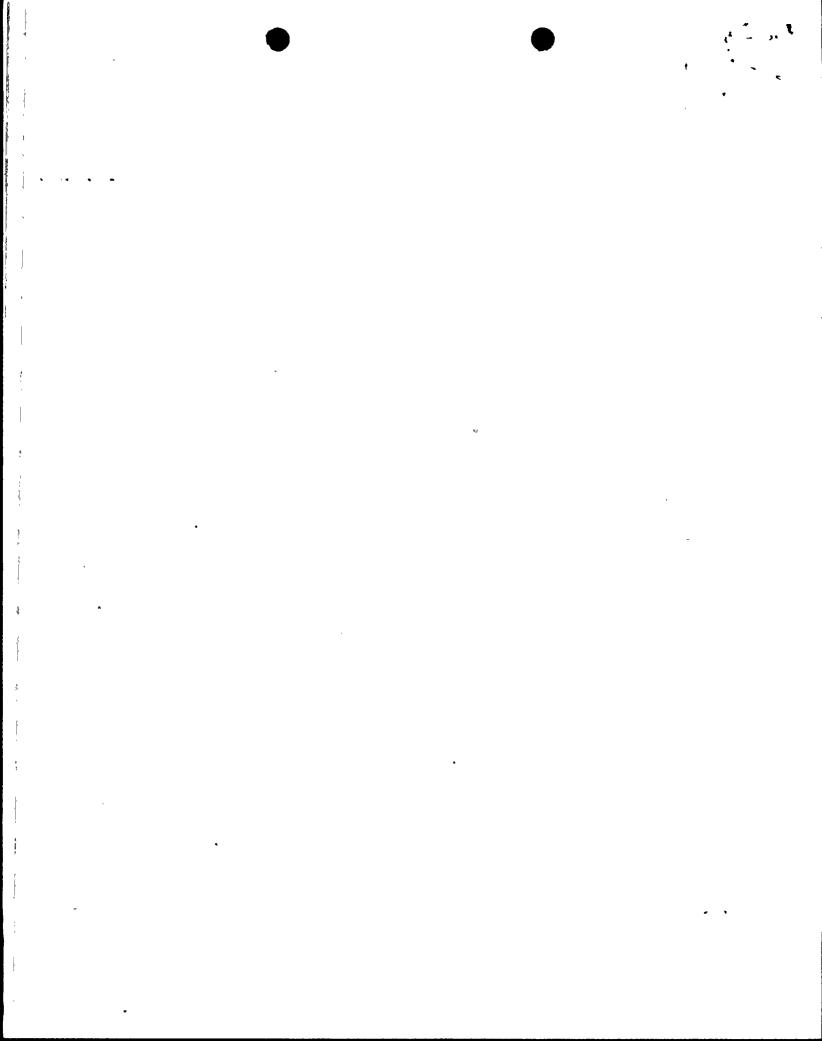
05000528**S**

05000530

NOTES: Standardized plant. Standardized plant.

Standardized plant.

						4
RECIPIENT			RECIPIENT			A
PD5 LA	1	0	PD5 PD	5 2	5	· D
LICITRA, E	T	U	DAVIS, M	7	U	
ACRS	10	10	AEOD/DOA	1	1	D
AEOD/DSP/TPAB	1	1	ARM TECH ADV	2	2	S
NRR/DLPQ/PEB	1	1	NRR/DOEA/EAB	1	1	5
NRR/DREP/RPB	1	1	NRR/PMAS/ILRB	1	1	
REG FILE 01	1	1	RGN5	1	1	
EG&G GROH,M	1	1	LPDR	1	1	į.
NRC PDR	1	1	NSIC	1	1	
	1.	1				-
	ID CODE/NAME PD5 LA LICITRA,E ACRS AEOD/DSP/TPAB NRR/DLPQ/PEB NRR/DREP/RPB REG_FILE 01 EG&G GROH,M	ID CODE/NAME LTTF PD5 LA 1 LICITRA,E 1 ACRS 10 AEOD/DSP/TPAB 1 NRR/DLPO/PEB 1 NRR/DREP/RPB 1 REG_FILE 01 1 EG&G GROH,M 1	ID CODE/NAME LTTR ENCL PD5 LA 1 0 LICITRA,E 1 0 10 ACRS 10 10 AEOD/DSP/TPAB 1 1 NRR/DLPQ/PEB 1 1 NRR/DREP/RPB 1 1 EG&G GROH,M 1 1	ID CODE/NAME PD5 LA 1 0 PD5 PD LICITRA,E 1 0 DAVIS,M ACRS 10 10 AEOD/DOA AEOD/DSP/TPAB 1 1 ARM TECH ADV NRR/DLPO/PEB 1 1 NRR/DOEA/EAB NRR/DREP/RPB 1 1 NRR/PMAS/ILRB REG_FILE 01 1 1 RGN5 EG&G GROH,M 1 1 LPDR	ID CODE/NAME	ID CODE/NAME



NRC MONTHLY OPERATING REPORT

DOCKET NO. UNIT NAME PVNGS-1 01/08/88 DATE J.L. Hull COMPLETED BY 602-393-2679

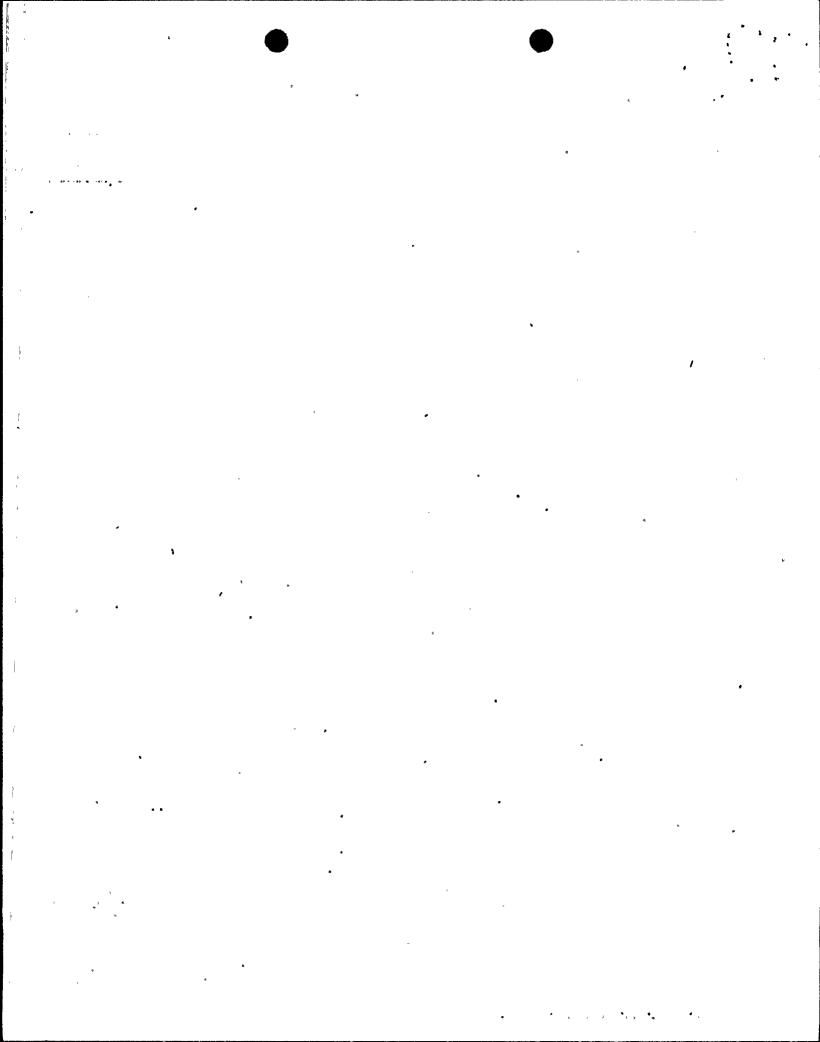
TELEPHONE

OPERATING STATUS

OPER	WIING SIMIOS		•	
1. 2. 3. 4. 5. 6. 7.	Unit Name: Palo Verde Nucle Reporting Period: December Licensed Thermal Power (MWt Nameplate Rating (Gross MWe Design Electrical Rating (Maximum Dependable Capacity Maximum Dependable Capacity If Changes Occur In Capacity Since Last Report, Give Res	1987 L): 3800 E): 1403 Net MWe): y (Gross MWe): y (Net MWe): ty Ratings (It	1270 : 1303 1221 tems Number 3	Through 7)
9. 10.	Power Level to Which Restrictions, .	ff Any:		
	به قصد احد ومدة ومدة الحد الحد الحد الحد الحد الحد الحد الحد		Yrto-Date	
11.	Hours in Reporting Period	744	8760	16872
12.	Number of Hours Reactor			
	Was' Critical	0.0	<u>4,589.1</u>	9,977.2
13.	Reactor Reserve Shutdown			
	Hours	0.0	0.0	<u> </u>
14.	Hours Generator On-Line	0.0	4,505.5	_9,717.1
15.	Unit Reserve Shutdown			0.0
	Hours	0.0	0.0	0.0
16.	Gross Thermal Energy	^ ^	16 140 684	OE 022 027
	Generated (MWH)		16,140,694.	35,735,037
17.	Gross Electrical Energy Generated (MWH)	0.0	5,616,400.	12 143 300
10	Net Electrical Energy		-51010137357	77777777
18.	Generated (MWH)	0.0	5,268,268.6	11,327,924.6
19.		0.0%	51.4%	57.6%
20.		0.0%	51.4%	57.6%
21.				
A		0.0%	49.3%_	55.0%
22.			,	
		0.0%	47.4%	<u> 52.9%</u>
23.	(Using DER Net) Unit Forced Outage Rate	0.0%	31.7%	24.4%_
24.		ext 6 Months	(Type, Date, a	nd Duration
	of Each): Currently in refu	<u>eling_shutdow</u>	<u> </u>	
	د جد حد جد حد عد جد جد حد حد جد جد جد عد			
25.	If Shutdown At End of Repor	t Period, Est	cimated Date o	f Startup:
	Estimated Mode 2 entry, 01/ Units in Test Status (Prior	<u> 14/87</u>		
26.	Units in Test Status (Prior	To Commercia	il Operation):	•
•		•	Forcest	Achieved
	INITIAL CRITICALITY		_5/85	
i .				_ <u>6/10/85</u> _
	INITIAL ELECTRICITY COMMERCIAL OPERATION		11/85	1/28/86
	COMMERCIAL OPERATION		-==755	

COMMERCIAL OPERATION 8801200133 871231 PDR ADOCK 05000528 R BCD

1/28/86



AVERAGE DAILY UNIT POWER LEVEL

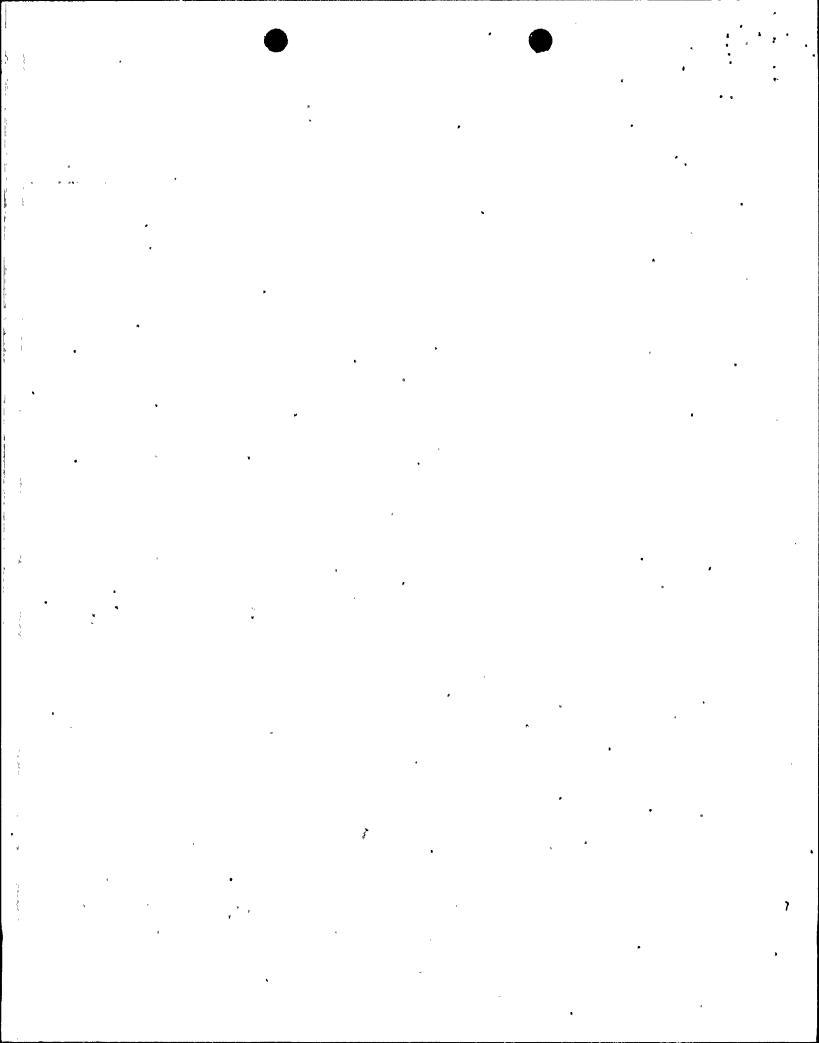
DOCKET NO. UNIT NAME

COMPLETED BY TELEPHONE

DATE

50-528 PVNGS-1 01/08/88 J.L. Hull 602-393-2679

	•	
<u>мой</u>	TH: December 1987	
DAY	AVERAGE DAILY POWER LEVEL	DAY AVERAGE DAILY POWER LEVEL
1		170
2		180
3	0	190
4	0	200
5	·	210
6		. 22
7	0	230
8	0	240
9	0	250
10		260
11	<u> </u>	270
12	0	280
13	<u> </u>	290
14	·	300
15	. 0	310



 DOCKET NO.
 50-528

 UNIT
 PVNGS-1

 DATE
 01/08/88

 COMPLETED BY
 J.L. Hull

 TELEPHONE
 602-393-2679

1. Scheduled date for next refueling shutdown.

10/02/87

2. Scheduled date for restart following refueling.

01/14/88

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

Yes

Required Technical Specifications are as follows:

5.3.1, 3/4.1.1.2, 3/4.1.1.3, 3/4.2.8, 3/4.1.3.1, 3/4.3.1, 3/4.1.3.6, 3/4.3.1, 2.1.1, 3/4.2.5, 3/4.2.1, 3/4.2.4, 3/4.2.7, 3/4.3.2

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

July 1, 1987

- 5. Important Licensing considerations associated with refueling, e.g. new or different fuel design or supplier, unreviewed design or performance analysis méthods, significant changes in fuel design, new operating procedures.
 - a) Modification of the CPCs under the CPC Improvement Program (CIP) and the Statistical Combination of Uncertainties (SCU) Program.
 - b) Maximum peak pin fuel enrichment will be 4.05 w % U235.
 - c) The fuel vendor for the following next 5 reloads will be Combustion Engineering.



DOCKET NO.

DATE .

COMPLETED BY TELEPHONE

UNIT

50-528

PVNGS-1 01/08/88

J.L. Hull 602-393-2679

(Continu	ed)
6.	The number of fuel assemblies.
	a) In the core241
	b) In the spent fuel storage pool80
7.	Licensed spent fuel storage capacity1329
	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.
•	2006 (18 Months reloads and full core discharge capability).



SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

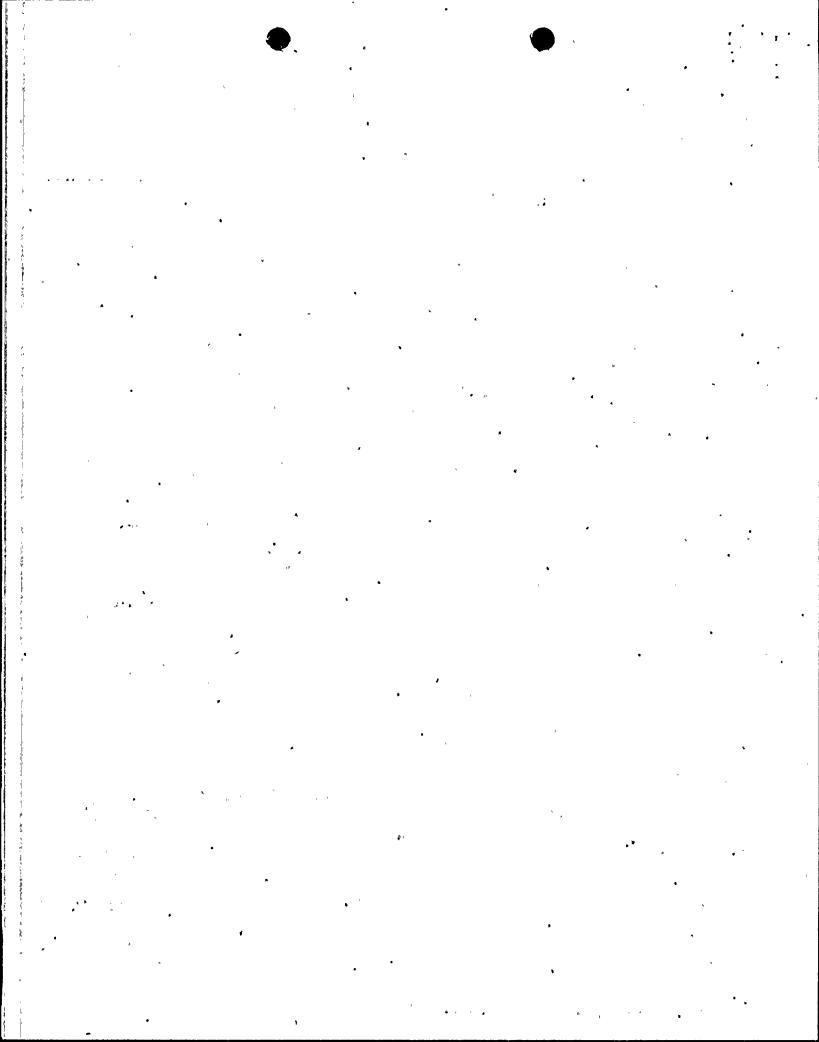
DOCKET NO.	50-528
UNIT	PVNGS-1
DATE	01/08/88
COMPLETED BY	J.L. Hull
TELEPHONE	602-393-2679

December 1987

12/01 Unit in Refueling Outage - Mode 6.

12/02 0500 Entered Mode 5

12/31 Unit in Refueling Outage - Mode 5.



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-528
UNIT NAME: PVNGS-1
DATE: 01/08/88
COMPLETED BY: J.L. Hull

TELEPHONE: 393-2679

No.	Date	Type ¹	Duration ·Hours	Reason ²	Method of Shutting Down Reactor ³	LER NO.	System ₄ Code	Component ₅	Cause and Corrective Action to Prevent Recurrence
10 Cc	ontinued	S	744	С	.1	N/A	N/A	N/A	Unit shut down due to Refueling Outage.

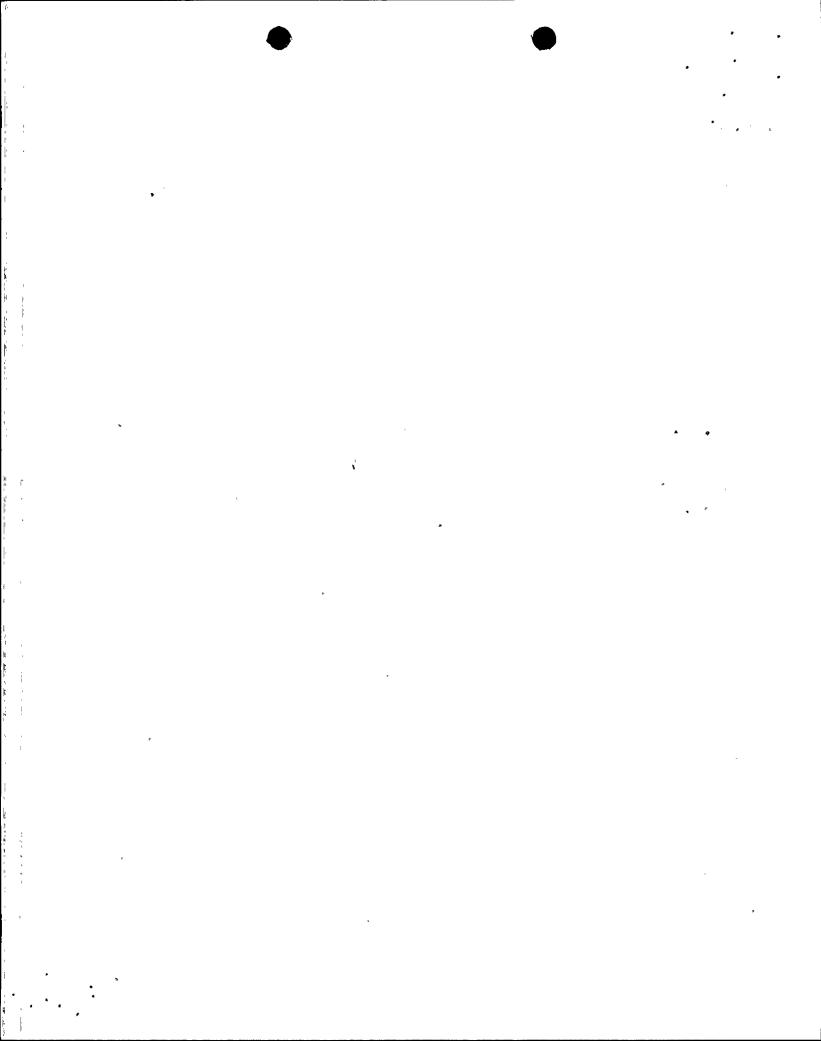
9-Other (Explain)

F-Forced
S-Scheduled
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 (Explain)
II-Other (Explain)

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

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

⁵ Exhibit II-Same Source



NRC MONTHLY OPERATING. REPORT

 DOCKET NO.
 50-529

 UNIT NAME
 PVNGS-2

 DATE
 01/08/88

 COMPLETED BY
 J.L. Hull

 TELEPHONE
 602-393-2679

<u>4/18/86</u>

5/20/86

9/19/86

__3/86__

11/86

6/86

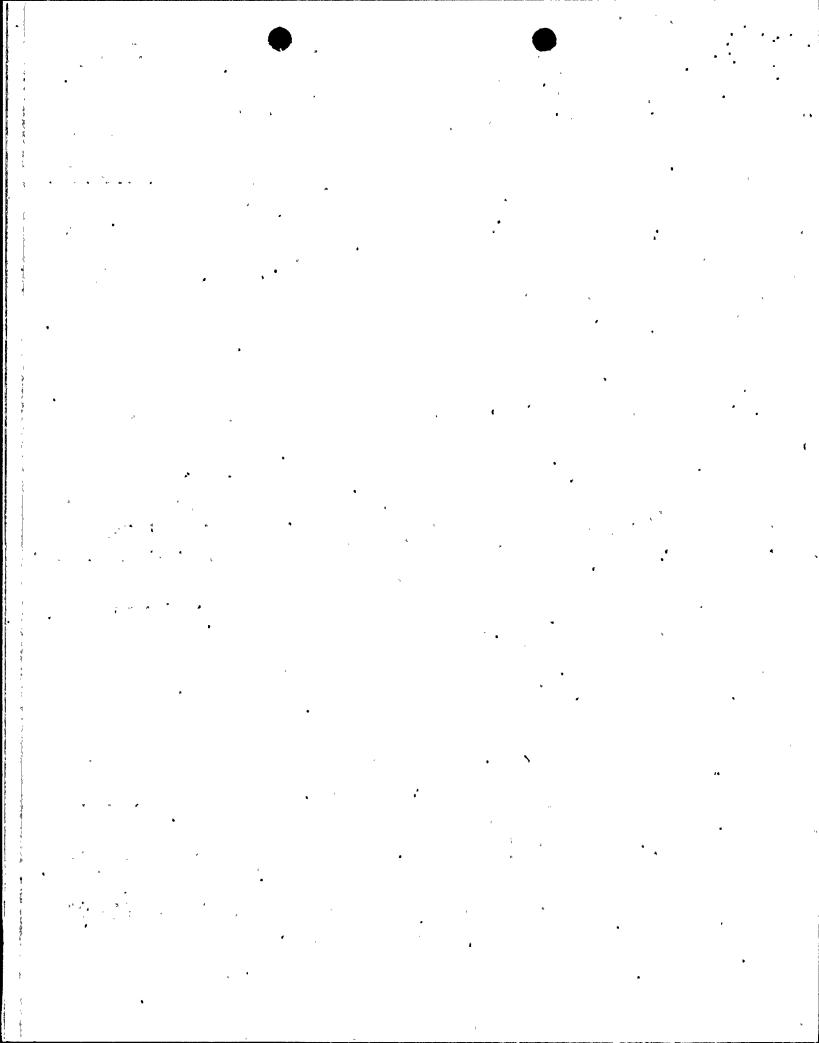
OPERATING STATUS

OPER	<u>ATING_STATUS</u>		'	
1. 2. 3. 4. 5. 6. 7. 8.	Unit Name: Palo Verde Nucle Reporting Period: December Licensed Thermal Power (MWt Nameplate Rating (Gross MWe Design Electrical Rating (N Maximum Dependable Capacity Maximum Dependable Capacity If Changes Occur In Capacit Since Last Report, Give Rea	1987): 3800): 1403 et MWe): (Gross MWe) (Net MWe): y Ratings (I	1270 : 1303 1221 tems Number 3 1	, Through 7)
9. 10.	Power Level to Which Restri- Reasons For Restrictions, I			
	,	This Month	Yrto-Date	
11.	. Hours in Reporting Period	744	8760	11256~
12.	Number of Hours Reactor Was Critical		· _ 6,985.2	
13.	Reactor Reserve Shutdown			
14.	Hours Generator On-Line	<u>0</u>	0 6,859.2	9-126-2
15.	Unit Reserve Shutdown	-		
16.	Hours Gross Thermal Energy		0	0
10.	Generated (MWH) .	2,799,320.	24,912,161.	33,207,167
17.	Gross Electrical Energy Generated (MWH)	987,000.	<u>8,733,100.</u>	11,661,270
18.	Net Electrical Energy			
19.	Generated (MWH) Unit Service Factor	933,198. 100.0%	_8,190,044 <u>:</u> 78.3%	10,936,882 81.1%
20.	Unit Availability Factor	100.0%	78.3%	81.1%
21.	Unit Capacity Factor (Using MDC Net)	102.7%	76.6%	79.6%
22.	Unit Capacity Factor (Using DER Net)	98.8%	73.6%	76.5%
23.	Unit Forced Outage Rate	0.0%	5.8%	6.6%
24.	Shutdowns Scheduled Over Ne	xt 6 Months	(Type, Date, an	d Duration
	of Each): <u>Scheduled Date f</u> <u>Duration of refue</u>	<u>or next Refu</u> ling shutdow	<u>eling Shutdown</u> n approximately	-2/21/88 _84_days
25.	If Shutdown At End of Repor	t Period, Es	timated Date of	Startup: ,
26.	Units in Test Status (Prior	To Commercia	ol Operation):	
		,	, Forecast	Achieved

INITIAL CRITICALITY

INITIAL ELECTRICITY

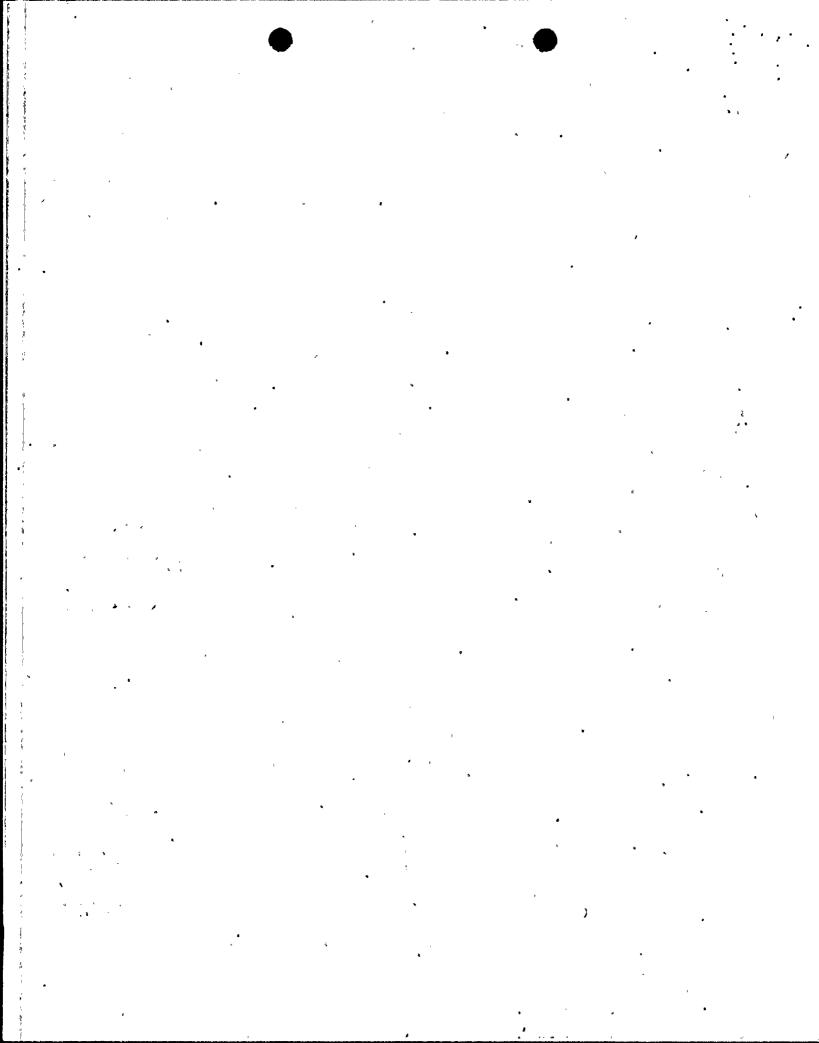
COMMERCIAL OPERATION



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-529
UNIT	PVNGS-2
DATE	01/08/88
COMPLETED BY	J.L. Hull
TELEPHONE	602-393-2679
• •	

MONTH: December 1987 DAY AVERAGE DAILY POWER LEVEL DAY AVERAGE DAILY POWER LEVEL 1,272 17 _____1,267_____ 18 _____1,259 2 ____1,267______ 19 _____1,267_____ 1,267 20 ____1,263_____ <u>1,267</u> · 21 ____1,267_____ 5 ____1,263_____ 22 ____1,272____ 6 ____1,263_____ 23 1,267 7 ____1,267 24 1,263 8 ____1,267 - 25 ____<u>1,188</u>_____ 9 ____1,263 10 ____1,272_____ 26 _____988_____ 27 _____1,247_____ 11 1,259 28 ____1,263_____ 12 ____1,272_____ 29 _____1,263_____ 13 1,272 30 1,267 14 _____1,267 _____ 31 1,263 15 _____1,272 _____ 16 _____1,267_____



DOCKET NO. 50-529
UNIT PVNGS-2 : 01/08/88
COMPLETED BY J.L. Hull
TELEPHONE 602-393-2679

Scheduled date for next refueling shutdown.

02/21/88

2. Scheduled date for restart following refueling.

05/15/88

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

YES

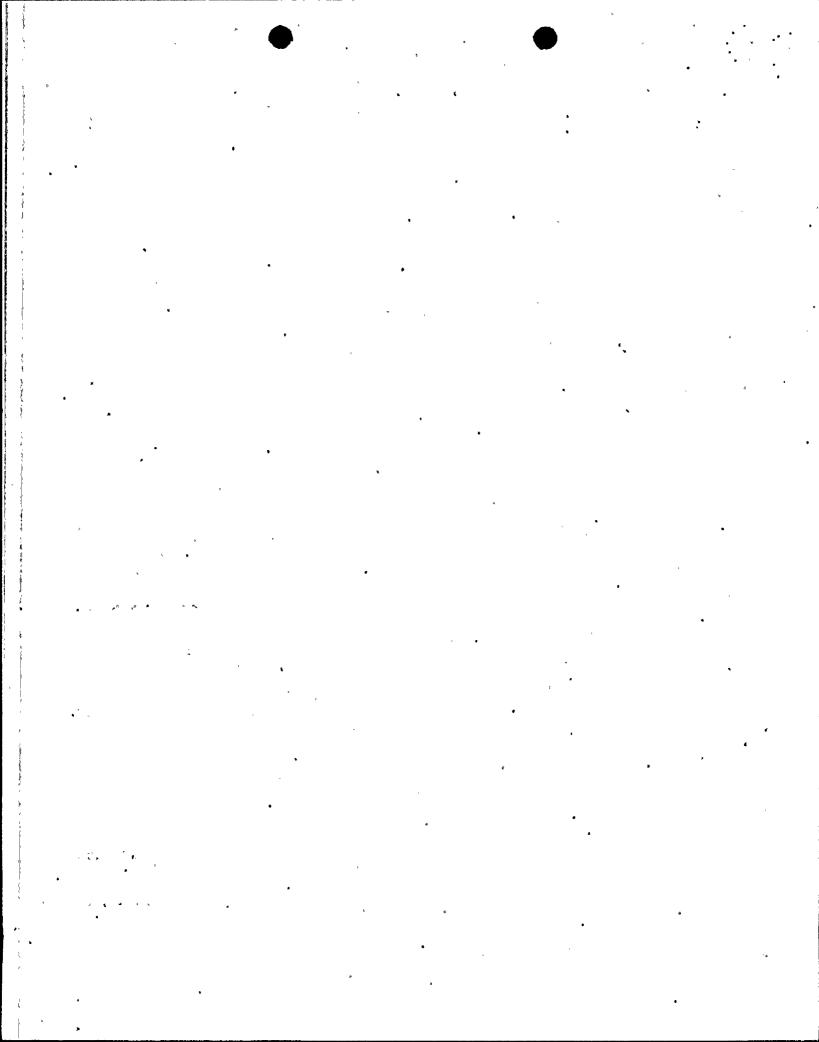
What will these be?

3/4 1.1.2 , 3/4 1.1.3 , 3/4 2.8 , 3/4 1.3.1 , 3/4 3.1 , 3/4 1.3.6, 3/4 2.5 , 3/4 2.1 , 3/4 2.4 , 3/4 2.3 , 3/4 3.2 2.1.1.1

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

12/15/87

- 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.
 - a) Modification of the CPCs under the CPC Improvement Program (CIP) and the Statistical Combination of Uncertainties (SCU) Program.
 - b) Maximum peak pin fuel énrichment will be 4.05 w % U235.
 - c) The fuel vendor for the following next 5 reloads will be Combustion Engineering.



		DOCKET NO. UNIT DATE COMPLETED BY TELEPHONE	50-529 PVNGS-2 01/08/88 J.L. Hull 602-393-2679
(Continu	ed)		
6.	The number of fuel assemblies.		
	a) In the core241		· ·
	b) In the spent fuel storage pool.	<u> </u>	•
7.	Licensed spent fuel storage capacity	· <u>1329</u> '	
	Intended change in spent fuel storag	e capacity.	None
8.	Projected date of last refueling tha fuel storage pool assuming present c		rged to spent
	2006 (18 Months reloads and full cor	e discharge cap	ability). '
	•		•

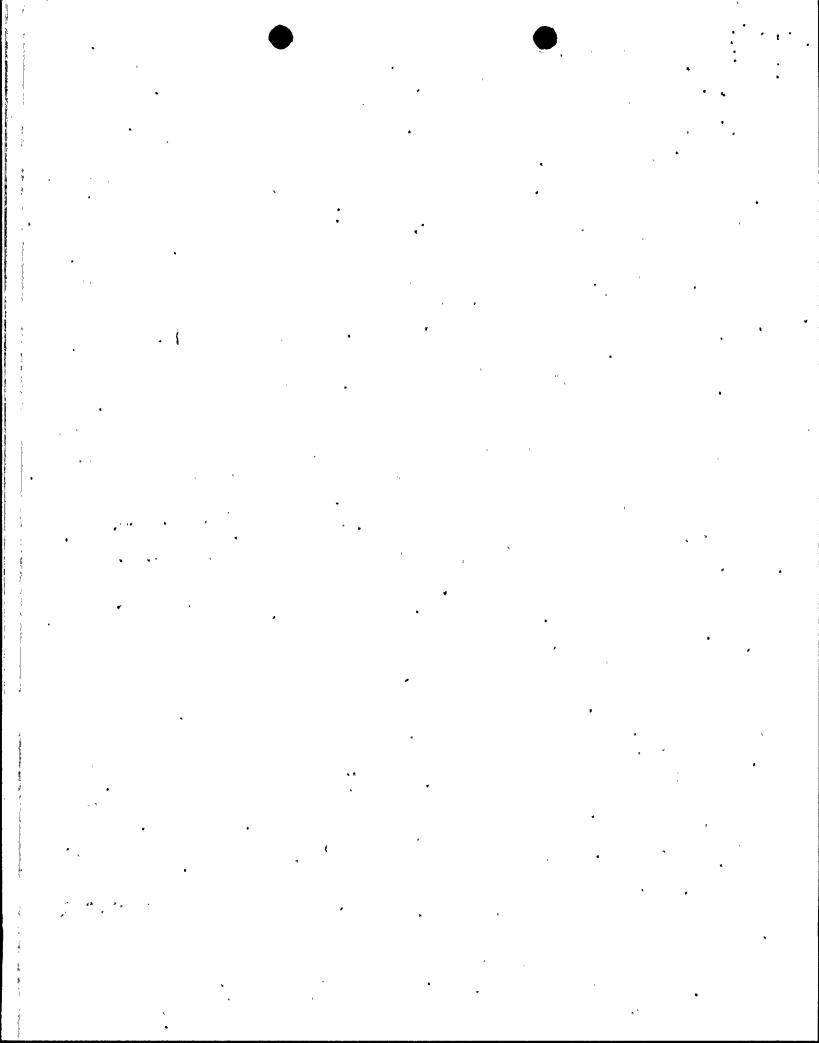


SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	50-529
UNIT	PVNGS-2
DATE	01/08/88
COMPLETED BY	J.L. Hull
TELEPHONE	602-393-2679

December 1987

12/01	b	Reactor Power 100%.
12/25	0923	Power reduction to 75% for monthly surveillance testing and secondary side maintenance on the moisture separator reheater.
12/26		Completed power reduction to 75%
12/27	0030	Reactor Power at 90%
12/27	0515	Reactor Power at 100%
10/01	2400	Pageton Payon et 100%



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-529
UNIT NAME: PVNGS=2
DATE: 01/08/88
COMPLETED BY: J.L. Hull
TELEPHONE: 393-2679

No.	Date	Type ¹	Duration -Hours	Reason ²	Method of Shutting Down Reactor ³	LER NO.	System ₄ Code	Component ₅	Cause and Corrective Action to Prevent Recurrence
17	12/25	S	N/A	В .	๋ ฮ5	N/A	N/A	N/A	Power reduction to 75% for monthly surveillance testi and secondary maintenance (MSR leak repair)

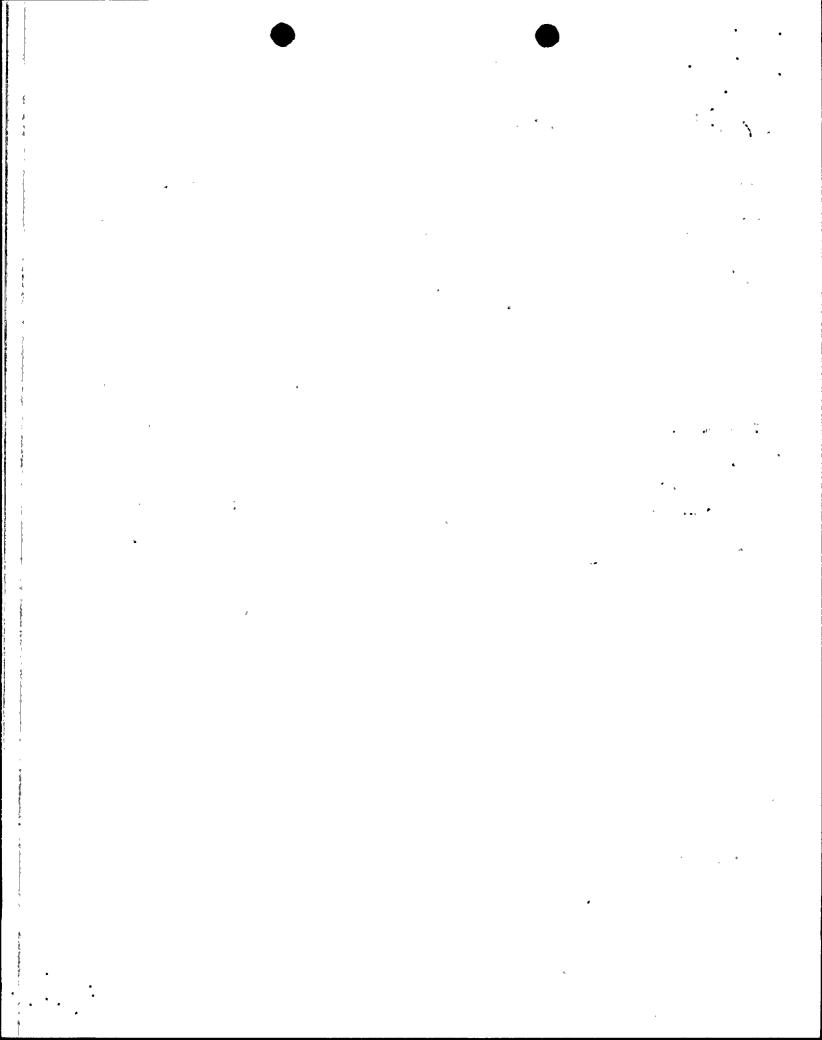
F-Forced
S-Scheduled

A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
M-Other (Explain)

³ 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)

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

⁵ Exhibit II-Same Source



NRC MONTHLY OPERATING REPORT

 DOCKET NO.
 50-530

 UNIT NAME
 PVNGS-3

 DATE
 01/08/88

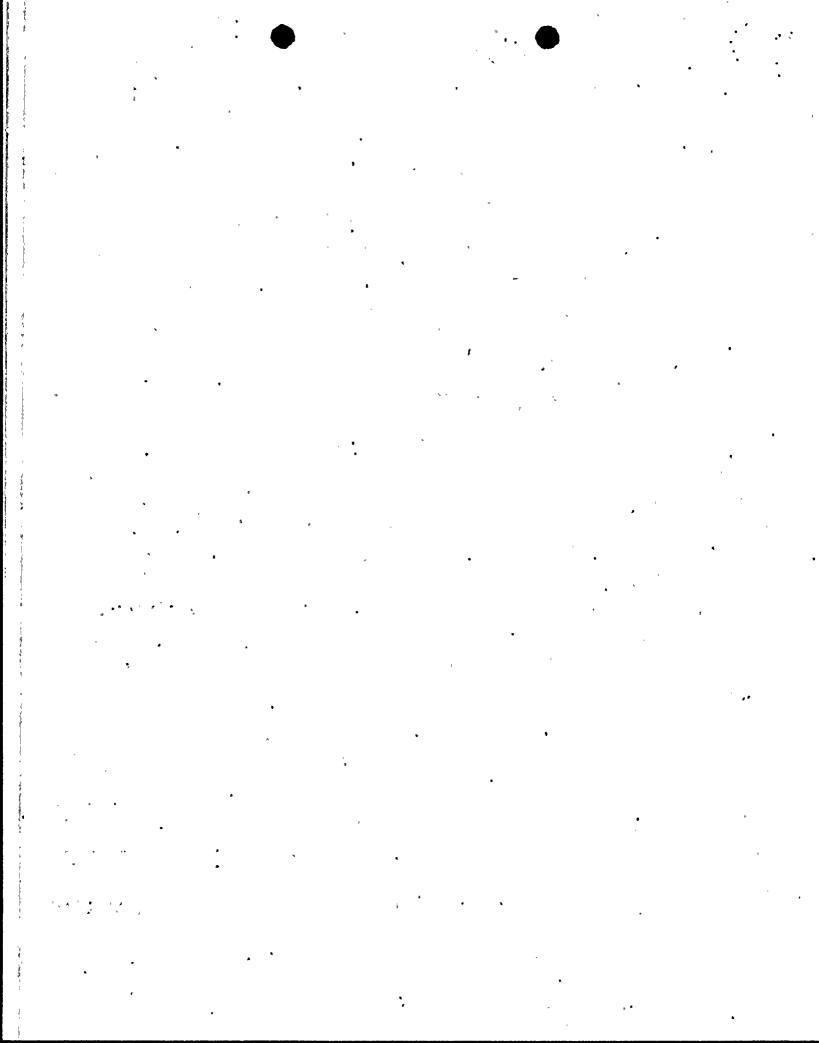
 COMPLETED BY
 J.L. Hull

 TELEPHONE
 602-393-2679

OPERATING STATUS

		•						
ì	Unit Name: Dale Verde Nucle	er Generatin	s Station. Unit	: з				
L.	Unit Name: Palo Verde Nuclear Generating Station, Unit 3							
2.	Reporting Period: December 1987							
3.	Licensed Thermal Power (MWt): 3800							
1 .	Nameplate Rating (Gross NW							
5.	Design Electrical Rating ()	Vet MWe):	<u>1270</u>					
5.	Maximum Dependable Capacity							
7.	Maximum Dependable Capacity	(Net MWe):	<u> 1221</u>					
3.	If Changes Occur In Capacit	y Ratings (I	tems Number 3 7	Through 7)				
	Since Last Report, Give Res	asons:						
∍.	Power Level to Which Restri	cted. If Any	(Net MWe): NO	NE				
10.	Reasons For Restrictions,	f Any:						
	,	This Month	Yrto-Date	Cumulative				
11.	Hours in Reporting Period	744	6048	6048				
12.	Number of Hours Reactor							
	Was Critical	677.0	945.9	945.9				
L3.	Reactor Reserve Shutdown							
	Hours	0	0	0				
4.	Hours Generator On-Line	606.6	0 620.7	620.7				
15.	Unit Reserve Shutdown							
	Hours	Ω	0	O				
. ~	Constant Thomas	,	Y					
16.	Gross Thermal Energy Generated (MWH)	1 102 205	1,244,187.0	1 244 197				
		7773773037	77533776776	, =====================================				
17.	Gross Electrical Energy	064 100	OCE 000	'acs 200				
	Generated (MWH)	354,100.	365,300	365*366*				
18.	Net Electrical Energy							
	Generated (MWH)	<u> 319,661.</u>	<u>. 319,661.</u>	319,661.				
19.	Unit Service Factor	0		0				
20.	Unit Availability Factor	·	o o					
21.	Unit Capacity Factor							
	(Using MDC Net)	0.	0	<u>0</u>				
22.								
\	(Using DER Net)	0	0	0				
23.	Unit Forced Outage Rate	0	0	0				
24.	Shutdowns Scheduled Over Ne	ext 6 Months	(Type, Date, ar	nd Duration				
	of Each):		4 5 - 7 - 2 - 2 - 7 - 40					
25.	If Shutdown At End of Repor	t Period, Es	timated Date of	Startup:				
26.	Units in Test Status (Prior	. 10 Commerci	ar oberation):					
	ď		Forecast	Achieved				
	INITIAL CRITICALITY	?	07/87_					
	INITIAL ELECTRICITY		. 07/87					

COMMERCIAL OPERATION



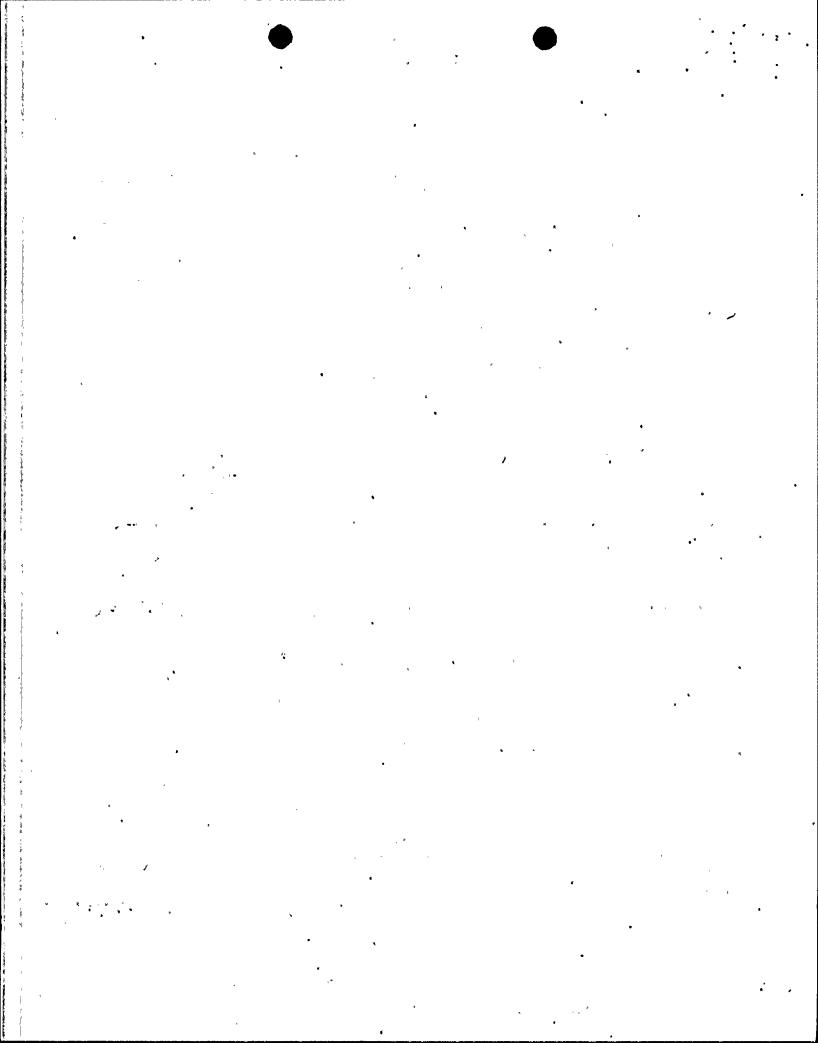
AVERAGE DAILY UNIT POWER LEVEL

50-530 PVNGS-3 DOCKET NO. 01/08/88 J.L. Hull 602-393-2679 TELEPHONE

UNIT DATE COMPLETED BY

MONTH: December 1987 .	
DAY AVERAGE DAILY POWER LEVEL .	DAY AVERAGE DAILY POWER LEVEL
1	1759
2'78	180
3120	19126
4141	20 540
5	21552
60	22548
73	23485
8,	24623 .
9451	25802
10551	26907
11,576	27970
12580	281,036
13	29361
14572	30197
15505	311,149

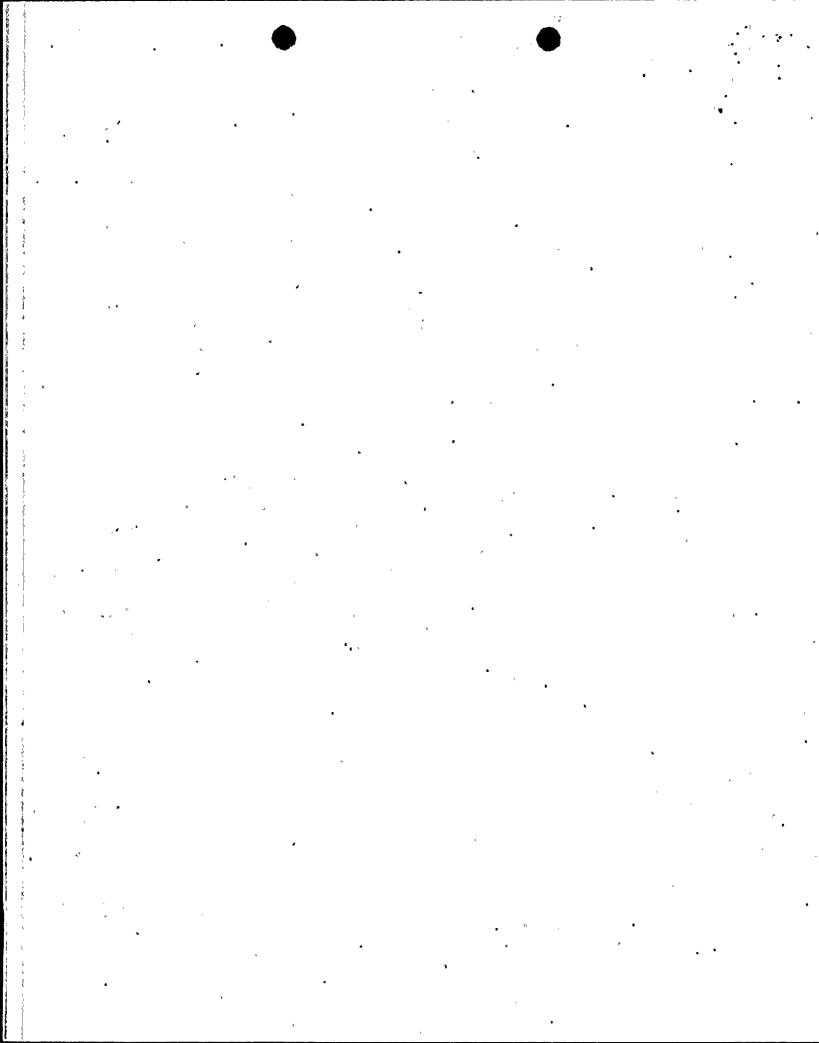
16 _____559_



DOCKET NO.

UNIT

		COMPLETED BY TELEPHONE	J.L. Hull 602-393-2679
1.,	Scheduled date for next refueling shu	ıtdown.	
	02/25/89 '		
2.	Scheduled date for restart following	refueling.	3
	05/05/89		
з.	Will refueling or resumption or operate Technical Specification change or other		
	Not Yet Determined	1	•
	What will these be?		,
	Not Yet Determined	•	
4.	.Scheduled date for submitting propose supporting information.	ed licensing ac	tion and
	Not Yet Determined	•	
5.	Important Licensing considerations as e.g. new or different fuel design or or performance analysis methods, sign design, new operating procedures.	supplier, unre	viewed design
	Not Yet Determined ,	-	
6	The number of fuel assemblies.		·
	a) In the core241		
	b) In the spent fuel storage pool.	0	
7.	Licensed spent fuel storage capacity	1329	•
	Intended change in spent fuel storage	capacity	None
8.	Projected date of last refueling that fuel storage pool assuming present ca		rged to spent
	2007 (18 Months reloads and full core	e discharge cap	ability).



SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. UNIT

COMPLETED BY

DATE

PVNGS-3 01/08/88 J.L. Hull

•		TELEPHONE 602-393-2679
December	1987	•
12/01		Reactor at 12% Mode 1
12/02	1750	Tripped turbine due to steam leak between control valve and the high pressure turbine - Reactor power at approximately 19.5%.
12/03	0026	Synchronized Main Generator to grid
12/05	1140	Reactor at approximately 19% the reactor was tripped for testing of remote shutdown panel. Mode 3
12/06	1302	Reactor critical Mode 2
12/06	1508	Entered Mode 1
12/06	1656	Synchronized Main Generator to grid
12/07	0201	Reactor power approximately 19% lowering power to 2% to allow for turbine work.
12/07	0315	Tripped Main Turbine, Mode 3
12/07	0429	Entered Mode 2, reactor critical
12/07	1112	Entered Mode 1
12/07	1615	Synchronized Main Generator to grid
12/07	2325	Tripped Main Generator for Subsynchronous Resonance Testing, reactor at approximately 13%.
12/08	0215	Synchronized Main Generator to grid
12/08	1330	Reactor power 30%
12/09	0137	Reactor power 50%
12/17	0430	Reactor trip occurred as a result of Lo DNBR calculated by CPCs. During insertion of part length CEAs a subgroup deviation occurred between groups P1 and P2, causing the insertion of a subgroup deviation penalty factor.

• • . v •

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

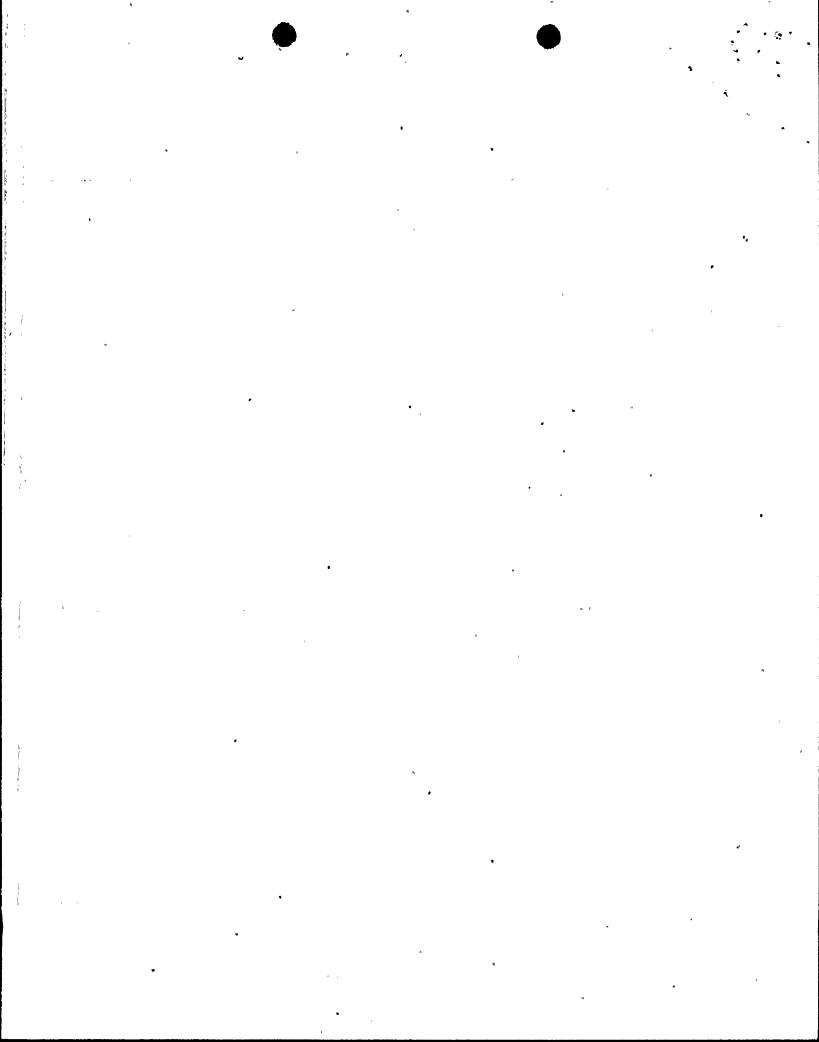
DOCKET NO.

COMPLETED BY TELEPHONE

UNIT DATE 50-530 PVNGS-3

01/08/88 J.L. Hull 602-393-2679

December	_1987	
, 12/18	2207	Reactor Critical Mode 2
12/19	0412	Entered Mode 1
12/19	0625	Sýnchronized to grid
12/19	0838	Turbine tripped due to high vibration
12/19	1535	Synchronized Main Génerator to grid
12/19	1535	Turbine tripped on reverse power.
12/19	1610	Synchronized Main Generator to grid
12/24	1439	Reactor power 60%
12/26	1115	Reactor power 80%
12/29	0827	Turbine trip following a main generator trip on high stator cooling water temperature. Temperature switches were miscalibrated, initiating a generator trip when stator cooling water temperatures were in normal range.
12/29	1000	Entered Mode 2
12/30	0833	Entered Mode 1
12/30	1240	Synchronized Main Generator to grid
12/31	1821	Reactor power 100%
12/31	2400	Reactor power 100%



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-530 UNIT NAME: PVNGS-3 . DATE: 1/8/88

COMPLETED BY: J.L. Hull

TELEPHONE: 602-393-2679

No.	Date	Type ¹	Duration · Hours	Reason ²	Method of Shutting Down Reactor ³	LER NO.	System ₄ Code	Component ₅ Code	Cause and Corrective Action to Prevent Recurrence
4	12/02	F	6.6	A	N/Ą	N/A	N/A	N/A	Tripped turbine due to steam leak between control valve and the High Pressure Turbine.
5	12/05	S	29.3	В	2	N/A	N/A	N/A	Reactor tripped for testing of Remote Shutdown Panel.
6	12/07	F	13.0	В	N/A	N/A	N/A	N/A	Tripped Turbine due to main- tenance work on Turbine.
7	12/07	S	2.8	В	N/A	N/A	N/A	N/A	Tripped Turbine for subsynchronous resonance testing.
. 8	12/17	F.	49.9	A .	3	3-87-004	AA	zc	Reactor trip occurred as a result of Lo DNBR calculated by CPCs. During insertion of part length CEAs a subgroup deviation occurred between groups P1 and P2, causing insertion of a subgroup deviation penalty factor.
9	12/19	F	7.0	A	N/A	N/A	N/A	N/A	Turbine trip due to high vibration.
10	12/19	F	.6	A	N/A	N/A	N/A	· N/A	Turbine trip due to reverse power.
11	12/29	F	28.2	A	N/A	N/A	N/A	N/A	Turbine trip due to SBCS Quick Open recalibrated temperature switches.

F-Forced S-Scheduled

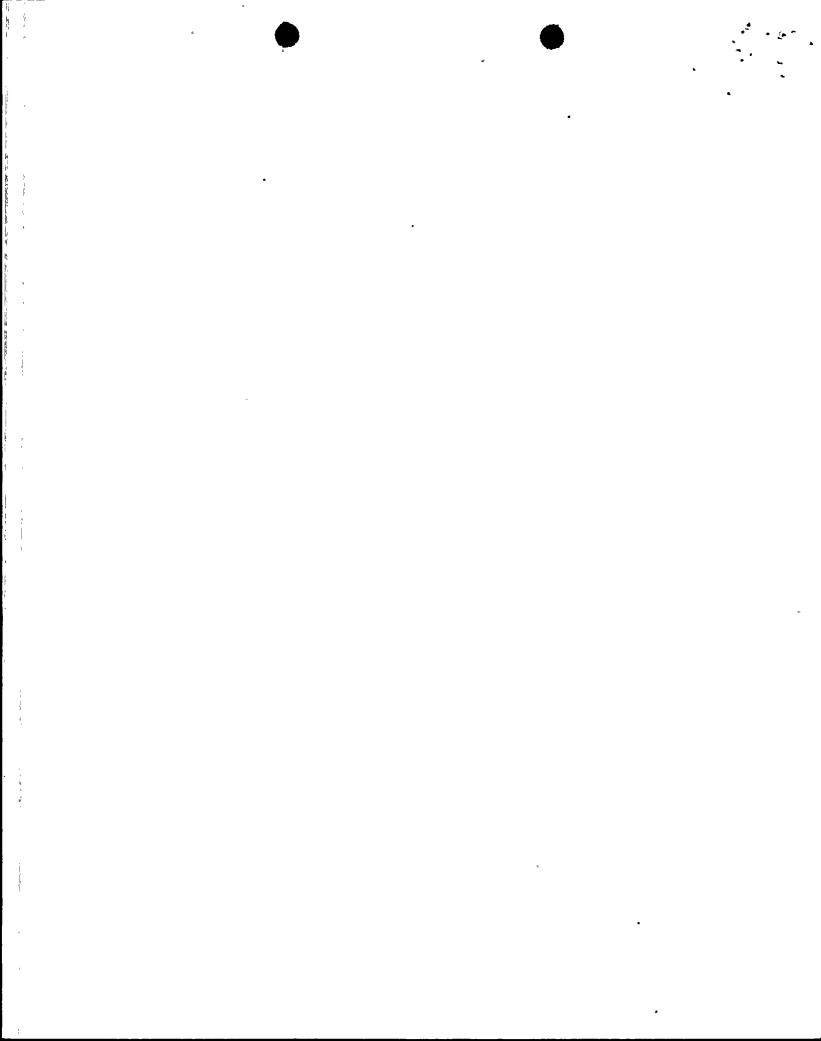
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
M-Other (Explain)

³ Method: 1-Manual 2-Manual Scram 3-Automatic Scram 4-Continuation fre

⁴⁻Continuation from Previous Month 5-Reduction of 20% or Greater in the Past 24 Hours 9-Other (Explain)

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

⁵ Exhibit II-Same Source



Arizona Nuclear Power Project

P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

January 13, 1988 212-00085-JGH/TJB

Docket Nos. STN 50-528/529/530

U.S. Nuclear Regulatory Commission Washington, D.C. 20555

Attention:

Document Control Desk

Gentlemen:

Subject:

Palo Verde Nuclear Generating Station (PVNGS)

Units 1, 2 and 3

December Monthly Operating Report

File: 88-024-404; 88-056-026

Attached is the December Monthly Operating Reports 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 a copy of the Monthly Operating Reports to the Regional Administrator of the Region V Office.

If you have any questions, please contact Mr. T. J. Bloom, at (602) 371-4187.

Very truly yours,

J. G. Havnes

Vice President Nuclear Production

JGH/TJB/rw Attachments

cc: O. M. De Michele

(all w/a)

E. E. Van Brunt, Jr.

J. B. Martin

E. A. Licitra

A. C. Gehr

J. A. Amenta

INPO Records Center

