OPERATING DATA REPORT

DOCKET NO. 50-295
DATE 1-8-82
COMPLETED BY J.M. COOK
TELEPHONE 312-746-2084
EXT. 363

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0000 811201 to 2400 811231
3. Licensed Thermal Power (MWt): 3250
4. Nameplate Rating (Gross MWe): 1085
5. Design Electrical Rating (Net MWe): 1040
6. Maximum Dependable Capacity (Gross MWe): 1085
7. Maximum Dependable Capacity (Net MWe): 1040
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
   N/A
9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

Notes

	This Month	Yr.-to-Date	Cumulative (since commercial operation 12-31-73)
11. Hours In Reporting Period	744	8,760	70,152
12. Number Of Hours Reactor Was Critical	744.0	6,454.3	50,956.16
13. Reactor Reserve Shutdown Hours	0	0	2,621.8
14. Hours Generator On-Line	744.0	6,295.2	49,550.9
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,401,230	19,825,908	141,365,653
17. Gross Electrical Energy Generated (MWH)	790,200	6,458,345	45,525,800
18. Net Electrical Energy Generated (MWH)	761,388	6,192,634	43,191,741
19. Unit Service Factor	100.0	71.9	70.6
20. Unit Availability Factor	100.0	71.9	70.6
21. Unit Capacity Factor (Using MDC Net)	98.4	68.0	59.2
22. Unit Capacity Factor (Using DER Net)	98.4	68.0	59.2
23. Unit Forced Outage Rate	0.0	3.4	12.8

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
    Refueling scheduled for February 19, 1982 for approximately seven weeks
25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY	N/A	
COMMERCIAL OPERATION		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295
UNIT Zion Unit 1
DATE 1-8-82
COMPLETED BY J.M. COOK
TELEPHONE 312-746-2084
EXT. 363

MONTH December 1981

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	973	17	1000
2	1020	18	1032
3	1040	19	1023
4	1034	20	1013
5	1006	21	1024
6	1034	22	1026
7	1009	23	1041
8	1019	24	1024
9	1031	25	1036
10	1020	26	1013
11	1033	27	1036
12	1021	28	1019
13	1023	29	1007
14	1020	30	1030
15	1047	31	1046
16	1026		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1981

DOCKET NO. 50-295
UNIT NAME Zion Unit 1
DATE 1-8-82
COMPLETED BY J. M. Cook
TELEPHONE 312-746-2084 EXT. 363

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	Cause & Corrective Action to Prevent Recurrence
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No Reactor Shutdowns or power reductions occurred

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance of Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

5
Exhibit I - Same Source

(9/77)

OPERATING DATA REPORT

DOCKET NO. 50-304
DATE 1-8-82
COMPLETED BY J. COOK
TELEPHONE 312-746-2084
EXT. 363

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0000 811201 to 2400 811231
3. Licensed Thermal Power (MWt): 3250
4. Nameplate Rating (Gross MWe): 1085
5. Design Electrical Rating (Net MWe): 1040
6. Maximum Dependable Capacity (Gross MWe): 1085
7. Maximum Dependable Capacity (Net MWe): 1040

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
N/A

9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative (since commercial operation 9-17-74)
11. Hours In Reporting Period	744	8,760	63,865
12. Number Of Hours Reactor Was Critical	480.4	6,645.2	46,341.1
13. Reactor Reserve Shutdown Hours	0	0	226.1
14. Hours Generator On-Line	400.5	6,364.3	45,040.0
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,105,491	17,720,563	127,830,152
17. Gross Electrical Energy Generated (MWH)	348,745	5,515,975	40,797,760
18. Net Electrical Energy Generated (MWH)	321,597	5,256,626	38,736,917
19. Unit Service Factor	53.8	72.7	70.5
20. Unit Availability Factor	53.8	72.7	70.5
21. Unit Capacity Factor (Using MDC Net)	41.6	57.7	58.3
22. Unit Capacity Factor (Using DER Net)	41.6	57.7	58.3
23. Unit Forced Outage Rate	46.2	12.8	16.8

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
N/A

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY	N/A	
COMMERCIAL OPERATION		

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-304
UNIT Zion Unit 2
DATE 1-8-82
COMPLETED BY J. M. Cook
TELEPHONE 312-746-2084
Ext. 363

MONTH December 1981

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	135	17	-28
2	596	18	-28
3	702	19	-29
4	736	20	-29
5	855	21	-30
6	107	22	26
7	547	23	429
8	894	24	942
9	909	25	-27
10	894	26	624
11	480	27	776
12	-30	28	1013
13	-29	29	995
14	-28	30	1017
15	-29	31	1037
16	-29		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1981

DOCKET NO. 50-304
UNIT NAME Zion Unit 2
DATE 1-8-82
COMPLETED BY J. M. Cook
TELEPHONE (312) 746-2084 ext 363

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	Cause & Corrective Action to Prevent Recurrence
12	811201	F	.3	A	4	N/A	N/A	N/A	Continued from November Reactor remained shutdown due to reactor coolant leaks
13	811201	F	10.3	A	3	N/A	N/A	N/A	Reactor trip from 2D Steam Generator reg. valve failed.
14	811206	F	25.0	A	3	N/A	N/A	N/A	Reactor trip from 2C Steam Generator lo-lo level due to EHC turbine control.
15	811211	F	253.2	A	3	N/A	N/A	N/A	Reactor trip/Generator trip due to hydrogen cooler leaks
No	811222	F	13.1	A	3	N/A	N/A	N/A	Reactor trip due to S/G reg. valve failure
17	811222	F	9.7	A	3	N/A	N/A	N/A	Reactor trip from reactor Protection relay failure
18	811225	F	31.9	A	1	N/A	N/A	N/A	Turbine taken off line to repair MSIV

[1] F: Forced
S: Scheduled

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

[3] Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

[4] Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

[5] Exhibit I - Same Source

(9/77)

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

The Unit entered the reporting period at a power level of 1070 MWe (99% reactor power). The Unit was on-line the duration of the reporting period having an Availability Factor of 100% and a Capacity Factor of 97.9%. The Unit ended the month on-line at a power level of 1070 MWe (99% reactor power).

UNIT 2

The Unit entered the reporting period shutdown due to reactor coolant leaks continued from November. The Unit was on-line December 1st at 0020 hours. On December 1st at 0310 hours a reactor trip occurred due to 2D steam/generator reg. valve failure. The Unit was made critical at 0851 hours and was synchronized to the grid at 1326 hours. On December 6th at 0355 hours a reactor trip occurred from 2C steam/generator lo-lo level due to EHC turbine control. The Unit was made critical at 1805 hours and was synchronized to the grid on December 7th at 0455 hours. On December 11th at 1325 hours a reactor/generator trip occurred due to Hydrogen Cooler Leaks. The Unit was made critical on December 21st at 0210 hours and was synchronized to the grid on December 22nd at 0235 hours. On December 22nd at 0521 hours a reactor trip occurred due to steam generator reg. valve failure. The Unit was made critical at 1255 hours and synchronized to the grid at 1825 hours. At 2033 hours a reactor trip occurred due to reactor protection relay failure. The Unit was made critical on December 23rd at 0400 hours and synchronized to the grid at 0613 hours. On December 25th at 1756 hours the turbine was taken off-line to repair the MSIV's. The reactor was synchronized to the grid on December 27th at 0155 hours. The Unit ended the reporting period on-line having an Availability Factor of 53.8% and a Capacity Factor of 43.2%.

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DECEMBER MAJOR SAFETY RELATED MAINTENANCE

There was no Major Safety Related Maintenance performed for the month of December, 1981.

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REFUELING INFORMATION REQUEST

Questions:

1. Name of facility.

2. Scheduled date for next refueling shutdown.

3. Scheduled date for restart following refueling.

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

   If answer is yes, what, in general, will these be?

   If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee to determine whether any unreviewed safety questions are associated with the core reload (Ref. 10 CFR Section 50.59)?

   If no such review has taken place, when is it scheduled?

5. Scheduled date (s) for submitting proposed licensing action and supporting information.

6. 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.

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.

8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.

Unit 1 - Answers

1. Zion Unit 1

2. February 19, 1982 is the scheduled date for the next refueling outage.

3. April 14, 1982 is the scheduled date for initial criticality following refueling.

4. The reload fuel design and core configuration has not undergone On-Site and Off-Site Review. However, no Technical Specification changes or license amendments are anticipated. The On-Site and Off-Site Review of the Cycle VII fuel design and core configuration is currently scheduled for completion by February 26, 1982.

5. No Technical Specification changes or other license amendments are anticipated.

6. No important licensing considerations are anticipated with this refueling.

7. The number of fuel assemblies

   a) in the core is 193, and
   b) in the spent fuel storage pool which have been discharged by Zion Unit 1 is 308.

8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 2) is 2112 fuel assemblies. The installation of the new storage racks has been completed.

9. October, 1992, is the projected date of the last Zion Unit 1 refueling, which can be discharged to the spent fuel pool assuming the present licensed capacity.

Unit 2 - Answers

1. Zion Unit 2

2. September 24, 1982, is the scheduled date for the next refueling outage.

3. November 12, 1982, is the scheduled date for initial criticality following refueling.

4. The reload fuel design and core configuration has not undergone On-Site and Off-Site Review. However, no Technical Specification changes or license amendments are anticipated. The On-Site and Off-Site Review of the Cycle VII fuel design and core configuration is currently scheduled for completion by August 24, 1982.

5. No Technical Specification changes or license amendments were identified.

6. No important licensing considerations are anticipated with this refueling.

7. The number of fuel assemblies

   a) in the core is 193, and
   b) in the spent fuel storage pool which have been discharged by Zion Unit 2 is 320.

8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 1) is 2112 fuel assemblies. The installation of the new storage racks has been completed.

9. October, 1992, is the projected date of the last Zion Unit 2 refueling, which can be discharged to the spent fuel pool assuming the present licensed capacity.

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