

OPERATING DATA REPORT

DOCKET NO. 50-295
 DATE 4-5-80
 COMPLETED BY J.M. COOK
 TELEPHONE 312-746-2084
 EXT. 363

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0000 800801 to 2400 800831
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	SINCE COMMERCIAL OPERATION 12-31-73 Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,855</u>	<u>58,463</u>
12. Number Of Hours Reactor Was Critical	<u>719.2</u>	<u>4,641.5</u>	<u>41,749.2</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>2,621.8</u>
14. Hours Generator On-Line	<u>668.9</u>	<u>4,489.5</u>	<u>40,576.8</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,048,865</u>	<u>13,853,092</u>	<u>113,236,093</u>
17. Gross Electrical Energy Generated (MWH)	<u>630,670</u>	<u>4,297,150</u>	<u>36,529,200</u>
18. Net Electrical Energy Generated (MWH)	<u>602,508</u>	<u>4,086,457</u>	<u>34,576,703</u>
19. Unit Service Factor	<u>89.9</u>	<u>76.7</u>	<u>69.4</u>
20. Unit Availability Factor	<u>89.9</u>	<u>76.7</u>	<u>69.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>77.9</u>	<u>67.1</u>	<u>56.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>77.9</u>	<u>67.1</u>	<u>56.9</u>
23. Unit Forced Outage Rate	<u>10.1</u>	<u>23.3</u>	<u>14.4</u>

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

Refueling scheduled for January 1, 1981
for approximately 7 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):

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

N/A

Forecast

Achieved

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295

UNIT Zion Unit 1

DATE 9-5-80

COMPLETED BY J.M. Cook

TELEPHONE 312-746-2084
Ext. 363

MONTH August 1980

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	934	17	943
2	945	18	958
3	948	19	949
4	941	20	963
5	952	21	963
6	956	22	418
7	959	23	303
8	952	24	541
9	946	25	460
10	955	26	-33
11	944	27	-33
12	935	28	660
13	958	29	951
14	936	30	960
15	954	31	959
16	927		

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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-295
 UNIT NAME Zion Unit 1
 DATE 9-5-80
 COMPLETED BY J.M. Cook
 TELEPHONE 312-746-2084
 EXT. 363

REPORT MONTH August 1980

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
16	800822	F	19.1	B	3	N/A	N/A	N/A	REACTOR TRIP DUE TO 1B Steam Generator 10-10 level.
17	800825	F	44.3	A	1	N/A	N/A	N/A	Generator off-line due to voltage regulation problem.
18	800827	F	11.7	A	3	N/A	N/A	N/A	Reactor trip/Turbine trip due to 1B FWP.

¹
 F: Forced
 S: Scheduled

²
 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)
 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

OPERATING DATA REPORT

DOCKET NO. 50-304
 DATE 9-5-80
 COMPLETED BY J.M. COOK
 TELEPHONE 312-746-2084
EXT. 363

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0000 800801 to 2400 800831
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:

Notes

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	since commercial operation 9-14-74 Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,855</u>	<u>52,176</u>
12. Number Of Hours Reactor Was Critical	<u>734.5</u>	<u>3,368.9</u>	<u>36,972.6</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>226.1</u>
14. Hours Generator On-Line	<u>686.6</u>	<u>3,199.2</u>	<u>37,013.0</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,959,457</u>	<u>9,566,242</u>	<u>102,201,560</u>
17. Gross Electrical Energy Generated (MWH)	<u>618,835</u>	<u>3,107,280</u>	<u>32,828,500</u>
18. Net Electrical Energy Generated (MWH)	<u>586,447</u>	<u>2,937,289</u>	<u>31,138,747</u>
19. Unit Service Factor	<u>92.3</u>	<u>54.6</u>	<u>70.9</u>
20. Unit Availability Factor	<u>92.3</u>	<u>54.6</u>	<u>70.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>75.8</u>	<u>48.2</u>	<u>57.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>75.8</u>	<u>48.2</u>	<u>57.4</u>
23. Unit Forced Outage Rate	<u>7.7</u>	<u>21.3</u>	<u>17.6</u>

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	<u>_____</u>	<u>_____</u>
INITIAL ELECTRICITY	<u>N/A _____</u>	<u>_____</u>
COMMERCIAL OPERATION	<u>_____</u>	<u>_____</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-304
 UNIT Zion Unit 2
 DATE 9-5-80
 COMPLETED BY J.M. Cook
 TELEPHONE 312-746-2084
 EXT. 363

MONTH August 1980

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>888</u>	17	<u>824</u>
2	<u>912</u>	18	<u>841</u>
3	<u>922</u>	19	<u>831</u>
4	<u>906</u>	20	<u>831</u>
5	<u>900</u>	21	<u>834</u>
6	<u>866</u>	22	<u>831</u>
7	<u>920</u>	23	<u>834</u>
8	<u>904</u>	24	<u>818</u>
9	<u>861</u>	25	<u>836</u>
10	<u>-33</u>	26	<u>832</u>
11	<u>-31</u>	27	<u>831</u>
12	<u>433</u>	28	<u>700</u>
13	<u>980</u>	29	<u>853</u>
14	<u>912</u>	30	<u>887</u>
15	<u>829</u>	31	<u>895</u>
16	<u>791</u>		

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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-304
 UNIT NAME Zion Unit 2
 DATE 9-5-80
 COMPLETED BY J.M. Cook
 TELEPHONE 312-746-2084
 EXT. 363

REPORT MONTH August 1980

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
18	800809	F	15.9	B	1	N/A	N/A	N/A	Turbine/Generator off for repairs of stator water cooling pumps.
19	800810	F	5.1	A	3	N/A	N/A	N/A	Reactor trip due to s/g 2D 10-level in coincident with steam flow/feed flow mismatch due to steam spike while attempting to start B feedwater pump.
20	800810	F	36.4	A	3	N/A	N/A	N/A	Reactor trip s/g 2C steam flow/feed flow mismatch coincident with 10-level caused by generator reverse power trip due to a problem with the EHC system.
21	800828	F	0	A	3	N/A	N/A	N/A	Load reduced to locate primary coolant system leak.

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
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SUMMARY OF OPERATING EXPERIENCE

UNIT 1

The Unit entered the reporting period at a power level of 997 MWe (99% reactor power). The Unit remained at, or near this power level until August 22nd, at 1045 hours when the reactor tripped, due to 1B steam generator lo-lo level. The Unit was made critical on August 23rd, at 0306 hours, and was synchronized to the grid at 0550 hours. On August 25th, at 1845 hours the generator was taken down manually, due to voltage regulation problems and was synchronized to the grid on August 27th, at 1505 hours. On August 27th, at 1535 hours a reactor trip/turbine trip occurred, due to 1B feedwater pump. The Unit was made critical on August 28th, at 0001 hours and was synchronized to the grid at 0317 hours. Overall, the Unit performed very well, having an Availability Factor of 89.9% and a Capacity Factor of 78.1%. The Unit ended the month on-line at a power level of 1015 MWe (98% reactor power).

UNIT 2

The Unit entered the reporting period at a power level of 942 MWe (90% reactor power). On August 9th, at 2305 hours the turbine/generator was manually shutdown for the repairs of stator water cooling pumps. On August 10th, at 1502 hours the reactor tripped, due to steam generator 2D lo-level in coincident with steam flow/feed flow mismatch, due to steam spike while attempting to start "B" feedwater pump. The Unit was made critical at 1700 hours, and at 2010 hours the reactor tripped from steam generator 2C steam flow/feed flow mismatch coincident with lo-level caused by generator reverse power trip, due to a problem with the EHC system. On August 11th, at 0340 hours the Unit was made critical, and was synchronized to the grid on August 12th, at 0830 hours. Overall, the Unit performed very well having an Availability Factor of 92.3% and a Capacity Factor of 76.7%. The Unit ended the month on-line at a power level of 940 MWe (92% reactor power).

AUGUST MAJOR SAFETY RELATED MAINTENANCE

<u>Equipment Name</u>	<u>Work Done</u>
2B R.C. Pump Seals	Replaced #4 seal, seal insert, runner. Replaced motor connected to pump.
2B Reactor Coolant Pump	No. 3 seal replaced
2D Reactor Coolant Pump	Complete seal inspection for fluctuation #1 leakoff and high stand pipe alarm
2A Charging Pump	Installed new inboard and outboard mech. seals, new shaft sleeves, new thrust shoes, new sleeve "O" rings and associated gaskets.
2A Auxiliary Feed Pump Turbine	Installed new gov. end radial bearing, new thrust bearing, new carbon seal rings inboard and outboard and new gaskets and oil seal.
2C Containment Spray Pump	Installed new bearings

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. January 1, 1981 is the scheduled date for the next refueling outage.
3. February 18, 1981 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 VI fuel design and core configuration is currently scheduled for completion by November 1, 1980.
5. If the need for Technical Specification changes or other license amendments arise from the review in 4 above, then November 1, 1980 will be the scheduled date for submitting the required information.
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 from Zion Unit 1, is 248.
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 is scheduled to begin within the next two months.
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 12, 1981 is the scheduled date for the next refueling outage.
3. October 31, 1981 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 VI fuel design and core configuration is currently scheduled for completion by July 15, 1981.
5. If the need for Technical Specification changes or other license amendments arise from the review in 4 above, then August 1, 1981 will be the scheduled date for submitting the required information.
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 260.
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 is scheduled to begin within the next two months.
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.