

OPERATING DATA REPORT

DOCKET NO. 50-295  
 DATE 8-6-82  
 COMPLETED BY J.M. COOK  
 TELEPHONE 312-746-2084  
 EXT. 363

OPERATING STATUS

1. Unit Name: ZION Unit 1  
 2. Reporting Period: 0000 820701 to 2400 820731  
 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>5,087</u>	<u>75,239</u>
12. Number Of Hours Reactor Was Critical	<u>711.9</u>	<u>1,746.9</u>	<u>52,703.5</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>2,621.8</u>
14. Hours Generator On-Line	<u>585.9</u>	<u>1,620.7</u>	<u>51,171.6</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,605,812</u>	<u>4,916,879</u>	<u>146,282,532</u>
17. Gross Electrical Energy Generated (MWH)	<u>515,703</u>	<u>1,603,188</u>	<u>47,128,988</u>
18. Net Electrical Energy Generated (MWH)	<u>489,123</u>	<u>1,497,507</u>	<u>44,689,248</u>
19. Unit Service Factor	<u>78.8</u>	<u>31.9</u>	<u>68.0</u>
20. Unit Availability Factor	<u>78.8</u>	<u>31.9</u>	<u>68.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>63.2</u>	<u>28.3</u>	<u>57.1</u>
22. Unit Capacity Factor (Using DER Net)	<u>63.2</u>	<u>28.3</u>	<u>57.1</u>
23. Unit Forced Outage Rate	<u>21.3</u>	<u>49.5</u>	<u>14.8</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>      </u>	<u>      </u>
COMMERCIAL OPERATION	<u>      </u>	<u>      </u>

**AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO. 50-295

UNIT 210N Unit 1

DATE 8-6-82

COMPLETED BY J.M. COOK

TELEPHONE 312-746-2084  
Ext. 363

MONTH July 1982

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>-24</u>	17	<u>909</u>
2	<u>-24</u>	18	<u>923</u>
3	<u>-26</u>	19	<u>997</u>
4	<u>-26</u>	20	<u>990</u>
5	<u>-27</u>	21	<u>1021</u>
6	<u>-28</u>	22	<u>1018</u>
7	<u>82</u>	23	<u>1017</u>
8	<u>418</u>	24	<u>1013</u>
9	<u>424</u>	25	<u>1018</u>
10	<u>433</u>	26	<u>1017</u>
11	<u>430</u>	27	<u>1017</u>
12	<u>472</u>	28	<u>1012</u>
13	<u>729</u>	29	<u>1013</u>
14	<u>736</u>	30	<u>1014</u>
15	<u>902</u>	31	<u>1016</u>
16	<u>912</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. 50-295  
 UNIT NAME 210A Unit 1  
 DATE 8-6-82  
 COMPLETED BY J.M. COOK  
 TELEPHONE 312-746-2034  
EXT. 363

REPORT MONTH July 1982

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
5	820620	F	136.8	A	4	N/A	N/A	N/A	Continued from June. Unit remained shutdown from 1A SAFETY Injection Pump- SHAFT BROKE
6	820706	F	15.7	G	3	N/A	N/A	N/A	Reactor trip / SAFETY Injection while performing operating surveillance
7	820707	F	5.6	A	3	N/A	N/A	N/A	Reactor / Turbine Trip on Intermediate Range HIGH Flux trip from power dropping below setpoint

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

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

<sup>5</sup>  
 Exhibit I - Same Source

OPERATING DATA REPORT

DOCKET NO. 50-304  
 DATE 8-6-82  
 COMPLETED BY S.M. COOK  
 TELEPHONE 312-746-2084  
 EXT. 363

OPERATING STATUS

1. Unit Name: ZION UNIT 2
2. Reporting Period: 0000 820701 to 2400 820731
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 9-17-74 Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,087</u>	<u>68,952</u>
12. Number Of Hours Reactor Was Critical	<u>723.5</u>	<u>3,681.5</u>	<u>50,022.6</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>226.1</u>
14. Hours Generator On-Line	<u>719.2</u>	<u>3,539.1</u>	<u>48,579.1</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,031,286</u>	<u>9,130,913</u>	<u>136,961,065</u>
17. Gross Electrical Energy Generated (MWH)	<u>647,014</u>	<u>2,931,651</u>	<u>43,729,411</u>
18. Net Electrical Energy Generated (MWH)	<u>617,668</u>	<u>2,757,395</u>	<u>41,494,312</u>
19. Unit Service Factor	<u>96.7</u>	<u>69.6</u>	<u>70.5</u>
20. Unit Availability Factor	<u>96.7</u>	<u>69.6</u>	<u>70.5</u>
21. Unit Capacity Factor (Using MDC Net)	<u>79.8</u>	<u>52.1</u>	<u>57.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>79.8</u>	<u>52.1</u>	<u>57.9</u>
23. Unit Forced Outage Rate	<u>3.3</u>	<u>30.4</u>	<u>18.0</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  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

N/A



**AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO. 50-304

UNIT 210N Unit 2

DATE 8-6-82

COMPLETED BY J.M. COOK

TELEPHONE 312-746-2084  
EXT. 303

MONTH July 1982

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>378</u>	17	<u>1016</u>
2	<u>389</u>	18	<u>1017</u>
3	<u>418</u>	19	<u>1016</u>
4	<u>411</u>	20	<u>1016</u>
5	<u>717</u>	21	<u>1016</u>
6	<u>1002</u>	22	<u>1009</u>
7	<u>1007</u>	23	<u>1007</u>
8	<u>210</u>	24	<u>1006</u>
9	<u>285</u>	25	<u>1013</u>
10	<u>439</u>	26	<u>1013</u>
11	<u>465</u>	27	<u>1004</u>
12	<u>836</u>	28	<u>996</u>
13	<u>1015</u>	29	<u>991</u>
14	<u>1016</u>	30	<u>998</u>
15	<u>1016</u>	31	<u>995</u>
16	<u>1018</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 EPON Unit 2  
 DATE 8-6-82  
 COMPLETED BY J.M. COOK  
 TELEPHONE 312-746-2084  
 EX 7.363

REPORT MONTH July 1982

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
12	820708	F	24.8	A	2	N/A	N/A	N/A	Turbine/Reactor trip manually shutdown due to loss of vacuum from steam flow/feed flow mismatch.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

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

<sup>5</sup>  
 Exhibit I - Same Source

## SUMMARY OF OPERATING EXPERIENCE

### UNIT 1

The Unit entered the reporting period shutdown due to #1A Safety Injection Pump shaft fracture. The unit was made critical on July 1st at 2300 hours. On July 6th at 1647 hours a reactor trip and Safety Injection occurred while performing an Operating Surveillance. At 2348 hours the reactor was made critical and was synchronized to the grid on July 7th at 0828 hours. On July 7th at 0847 hours a reactor/turbine trip occurred on Intermediate Range high flux trip due to power dropping below setpoint. At 1050 hours the reactor was made critical and was synchronized to the grid at 1420 hours. The Unit remained on line the remainder of the month having an Availability Factor of 78.8% and a Capacity Factor of 63.9%. The Unit ended the month at a power level of 1062.5 MWe (99.5% reactor power).

### UNIT 2

The Unit entered the month on-line. On July 8th at 0530 hours a manual turbine/reactor trip occurred due to loss of vacuum from steam flow/feed flow mismatch. On July 9th at 0200 hours the reactor was made critical and at 0620 hours was synchronized to the grid. The Unit remained on line the remainder of the month ending at a power level of 1030 MWe (99.4% reactor power). The Unit had an Availability Factor of 96.7% and a Capacity Factor of 80.2%.

JULY MAJOR SAFETY RELATED MAINTENANCE

<u>Equipment Name</u>	<u>Work Done</u>
1C MSIV - Closing Site Accumulator	Installed new gas valve and charged accumulator
Unit 1 BIT Recirc. Line	Flushed out lines. Installed blank flange
1C Auxiliary Feedwater Pump Service Water Suction Supply Isolation Valve	Installed new drive nut and tested
Unit 1 Relief Valve - Letdown Heat Exchange Room	Replaced relief valve
1A Safety Injection Pump	Replaced rotor, realigned element, replaced seals, aligned pump



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. September 4, 1983 is the scheduled start date for the next refueling outage.
3. December 14, 1983 is the scheduled date of initial criticality following refueling.
4. The transition to the use of optimized fuel is currently planned to start in Cycle VIII. Some Technical Specification changes and license amendments will be required.
5. Submittal of transition related changes is currently scheduled for completion by April, 1983. Cycle specific changes, if required, are scheduled for completion by July, 1983.
6. See 4 and 5.
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 364.
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. January 16, 1983, is the scheduled date for the next refueling outage.
3. March 6, 1983, 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 November 11, 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 316.
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.