

OPERATING DATA REPORT

DOCKET NO. 50-295
 DATE 86 07 03
 COMPLETED BY G Austin
 TELEPHONE 746 2084

OPERATING STATUS

1. Unit Name: Zion Unit one
2. Reporting Period: 86 06 01 0000 TO 86 06 30 2400
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

NA

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>720.0</u>	<u>4343.0</u>	<u>109559.0</u>
12. Number Of Hours Reactor Was Critical	<u>720.0</u>	<u>3930.1</u>	<u>77,647.0</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>2,621.8</u>
14. Hours Generator On-Line	<u>720.0</u>	<u>3891.1</u>	<u>75,497.3</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,219,679</u>	<u>12,157,464</u>	<u>215,730,727</u>
17. Gross Electrical Energy Generated (MWH)	<u>729,336</u>	<u>3,996,274</u>	<u>69,715,072</u>
18. Net Electrical Energy Generated (MWH)	<u>700,562</u>	<u>3,826,919</u>	<u>68,176,447</u>
19. Unit Service Factor	<u>100.0</u>	<u>89.6</u>	<u>68.9</u>
20. Unit Availability Factor	<u>100.0</u>	<u>89.6</u>	<u>68.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>93.6</u>	<u>84.7</u>	<u>59.8</u>
22. Unit Capacity Factor (Using DER Net)	<u>93.6</u>	<u>84.7</u>	<u>59.8</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>9.3</u>	<u>13.8</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

NA

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

Forecast

Achieved

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

NA

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295

UNIT ZION U-1

DATE 86 07 03

COMPLETED BY Gerri Austin

TELEPHONE 746 2084

MONTH June

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>975</u>
2	<u>976</u>
3	<u>974</u>
4	<u>973</u>
5	<u>977</u>
6	<u>973</u>
7	<u>975</u>
8	<u>972</u>
9	<u>970</u>
10	<u>973</u>
11	<u>973</u>
12	<u>974</u>
13	<u>975</u>
14	<u>978</u>
15	<u>974</u>
16	<u>976</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>973</u>
18	<u>978</u>
19	<u>978</u>
20	<u>973</u>
21	<u>974</u>
22	<u>979</u>
23	<u>978</u>
24	<u>974</u>
25	<u>973</u>
26	<u>972</u>
27	<u>964</u>
28	<u>963</u>
29	<u>966</u>
30	<u>954</u>
31	<u>—</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

REPORT MONTH June

DOCKET NO. 50-295
 UNIT NAME ZION Unit ONE
 DATE 86 07 03
 COMPLETED BY G. CARR Austin
 TELEPHONE 312 746 2084

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
									There were no shutdowns or power reductions this month

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-Auto Scram
 4-Continued
 5-Reduced Load
 9-Other

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 86 07 03
 COMPLETED BY G Austin
 TELEPHONE 746 2084

OPERATING STATUS

1. Unit Name: Zion Unit Two
2. Reporting Period: 86 06 01 0000 TO 86 06 30 2400
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:
NA

Notes

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

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	<u>720.0</u>	<u>4343.0</u>	<u>103,272.0</u>
12. Number Of Hours Reactor Was Critical	<u>629.5</u>	<u>3608.8</u>	<u>75,027.3</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>226.1</u>
14. Hours Generator On-Line	<u>629.5</u>	<u>3353.8</u>	<u>72,960.5</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,007,944</u>	<u>10,118,235</u>	<u>210,790,740</u>
17. Gross Electrical Energy Generated (MWH)	<u>674,032</u>	<u>3,389,138</u>	<u>67,708,733</u>
18. Net Electrical Energy Generated (MWH)	<u>646,536</u>	<u>3,233,933</u>	<u>63,911,375</u>
19. Unit Service Factor	<u>87.4</u>	<u>77.2</u>	<u>70.6</u>
20. Unit Availability Factor	<u>87.4</u>	<u>77.2</u>	<u>70.6</u>
21. Unit Capacity Factor (Using MDC Net)	<u>86.3</u>	<u>71.6</u>	<u>59.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>86.3</u>	<u>71.6</u>	<u>59.5</u>
23. Unit Forced Outage Rate	<u>12.5</u>	<u>3.4</u>	<u>15.3</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
August, 1986 is the next scheduled date for the Refueling Outage

25. If Shut Down At End Of Report Period, Estimated Date of Startup: NA

26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

 _____ NA _____

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-304

UNIT Zion U-2

DATE 860703

COMPLETED BY Gerri Austin

TELEPHONE 746 2084

MONTH June

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1046</u>
2	<u>1045</u>
3	<u>1042</u>
4	<u>1044</u>
5	<u>1042</u>
6	<u>1044</u>
7	<u>1044</u>
8	<u>1042</u>
9	<u>1046</u>
10	<u>1043</u>
11	<u>1045</u>
12	<u>1045</u>
13	<u>1036</u>
14	<u>1033</u>
15	<u>912</u>
16	<u>1027</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1035</u>
18	<u>1038</u>
19	<u>1038</u>
20	<u>1038</u>
21	<u>1037</u>
22	<u>1035</u>
23	<u>1036</u>
24	<u>1036</u>
25	<u>1037</u>
26	<u>975</u>
27	<u>103</u>
28	<u>- 16</u>
29	<u>- 14</u>
30	<u>- 18</u>
31	<u>-</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.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June

DOCKET NO. 50-304
 UNIT NAME ZION Unit Two
 DATE June 07 03
 COMPLETED BY Gerri Austin
 TELEPHONE 312 746 2084

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
4	86 06 27	F	90.5		3	NA	NA	NA	Reactor trip due to high over-temperature delta T on loops B+D caused by Tavg channels on loop B+D failing upscale high during lightening storm. Investigation in progress.

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-Auto Scram
 4-Continued
 5-Reduced Load
 9-Other

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

⁵
 Exhibit I - Same Source

JUNE

MAJOR SAFETY RELATED MAINTENANCE

Equipment

Work performed

There was no major safety related maintenance performed this month.

JUNE

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

The unit entered the reporting period at a power level of 1008 MWe (94% reactor power). The unit remained on line the entire report period ending at a power level of 1006 MWe (94% reactor power) and having an availability factor of 100%.

Unit 2

The unit entered the reporting period at a power level of 1080 MWe (98% reactor power). On June 27th at 0529 hours the reactor tripped due to high overtemperature delta T on loops B and D, caused by Tavg channels on loops B and D failing upscale high during lightening storm. The unit remained off line (shutdown) for the remainder of the reporting period. Availability factor for the month was 87.4%.

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. August 7, 1986, is the first scheduled date for the next refueling outage. This date is subject to change.
3. December 5, 1986 is the earliest date for initial criticality following refueling.
4. A Technical Specification change will be required to permit tube sleeving as a method of steam generator repair, and to update vessel heatup and cooldown curves. A reload safety evaluation review took place April 1, 1986 and identified no unreviewed safety questions. However, because the current cycle may run longer than assumed in the reload analysis, a second reload safety review will be held if necessary to discuss the changes.
5. The sleeving Tech. Spec. change was submitted in May, 1986. The vessel heatup and cooldown curves will be submitted when available (September).
6. None
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 497.
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. In 1995, Zion Station will lose full core discharge capability. This date is based on a December, 1983 study.

Unit 2 - Answers

1. Zion Unit 2
2. February 26, 1987 is the scheduled date for the next refueling outage.
3. May 14, 1987 is the approximate date for initial criticality after refueling.
4. None have yet been identified.
5. None
6. None.
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 511.
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. In 1995, Zion Station will lose full core discharge capability. This date is based on a December, 1983 study.



Commonwealth Edison

Zion Generating Station
101 Shiloh Blvd.
Zion, Illinois 60099
Telephone 312/746-2084

July 3, 1986

Director, Office of Management,
Information and Program Control
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

Enclosed please find the Operating Status Report for the
month of June, 1986 for Zion Generating Station.

Sincerely yours,

G. J. Pliml
Station Manager
Zion Station

GJP/GLA/gn

Enclosures (11)

cc: D. P. Galle
J. G. Keppler (NRC)
L. D. Butterfield
H. E. Bliss
INPO
L. J. Anastasia
Division of Env. Health
State of Illinois
Tech Staff File
Director, Office of Inspection
and Enforcement

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