

# OPERATING DATA REPORT

DOCKET NO. 50-295  
 DATE AUG 9, 1985  
 COMPLETED BY G Austin  
 TELEPHONE 746 2084

## OPERATING STATUS

1. Unit Name: ZION Unit 1
2. Reporting Period: 0000 850701 TO 2400 850731
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>744.0</u>	<u>5087.0</u>	<u>101,543.0</u>
12. Number Of Hours Reactor Was Critical	<u>744.0</u>	<u>1677.7</u>	<u>70,073.4</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>744.0</u>	<u>1537.7</u>	<u>68,036.5</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>2,360,963</u>	<u>4,302,728</u>	<u>192,416,906</u>
17. Gross Electrical Energy Generated (MWH)	<u>773,030</u>	<u>1,394,334</u>	<u>62,066,128</u>
18. Net Electrical Energy Generated (MWH)	<u>740,386</u>	<u>1,298,815</u>	<u>60,834,394</u>
19. Unit Service Factor	<u>100.0</u>	<u>30.2</u>	<u>67.0</u>
20. Unit Availability Factor	<u>100.0</u>	<u>30.2</u>	<u>67.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>95.7</u>	<u>24.6</u>	<u>57.6</u>
22. Unit Capacity Factor (Using DER Net)	<u>95.7</u>	<u>24.6</u>	<u>57.6</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>12.5</u>	<u>14.6</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>NA</u>			

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	<u>NA</u>	<u>NA</u>
INITIAL ELECTRICITY	<u>NA</u>	<u>NA</u>
COMMERCIAL OPERATION	<u>NA</u>	<u>NA</u>

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295  
 UNIT ZION Unit 1  
 DATE Aug. 9, 1985  
 COMPLETED BY Gerri Austin  
 TELEPHONE (312) 746-2084

MONTH July

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	898
2	916
3	902
4	911
5	937
6	1020
7	1021
8	1023
9	1021
10	1017
11	1016
12	1015
13	1016
14	1024
15	1016
16	1004

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1003
18	1002
19	1010
20	1005
21	1001
22	996
23	996
24	1008
25	1014
26	1011
27	1011
28	1012
29	1011
30	1003
31	1009

## 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

July

DOCKET NO. 50-295  
 UNIT NAME Zion Unit 2  
 DATE Aug 9, 1985  
 COMPLETED BY G. Austin  
 TELEPHONE 312 746 2084

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
									There were no shutdowns or power reductions this month.

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

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method  
 1-Manual  
 2-Manual Scram  
 3-Auto Scram  
 4-Continued  
 5-Reduced Load  
 9-Other

<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 AUG 9, 1985  
 COMPLETED BY G. AUSTIN  
 TELEPHONE 312 746 2084

## OPERATING STATUS

1. Unit Name: ZION Unit two
2. Reporting Period: 0000 85 07 01 TO 2400 85 07 31
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>744.0</u>	<u>5087.0</u>	<u>95,256.0</u>
12. Number Of Hours Reactor Was Critical	<u>744.0</u>	<u>5068.2</u>	<u>70,577.5</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>226.1</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>5060.3</u>	<u>68,765.7</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>1,711,561</u>	<u>13,222,195</u>	<u>199,322,539</u>
17. Gross Electrical Energy Generated (MWH)	<u>543,468</u>	<u>4,954,901</u>	<u>63,915,661</u>
18. Net Electrical Energy Generated (MWH)	<u>520,288</u>	<u>4,759,806</u>	<u>60,323,062</u>
19. Unit Service Factor	<u>100.0</u>	<u>99.5</u>	<u>72.2</u>
20. Unit Availability Factor	<u>100.0</u>	<u>99.5</u>	<u>72.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>67.2</u>	<u>89.9</u>	<u>60.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>67.2</u>	<u>89.9</u>	<u>60.9</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.4</u>	<u>16.0</u>

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

September 6, 1985 is the next scheduled date for refueling

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 Unit 2  
 DATE AUG 9 1985  
 COMPLETED BY Gerri Austin  
 TELEPHONE (312) 746 2084

MONTH July

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	859
2	846
3	705
4	854
5	818
6	793
7	785
8	771
9	771
10	760
11	752
12	739
13	719
14	713
15	717
16	710

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	700
18	679
19	665
20	667
21	663
22	660
23	654
24	633
25	635
26	634
27	613
28	606
29	603
30	597
31	586

## 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

July

DOCKET NO.

50-304

UNIT NAME

ZION Unit 2

DATE

AUG 9 1985

COMPLETED BY

G. Austin

TELEPHONE

312 746 2084

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
									There were no shutdowns or power reductions for this month.

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-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



JULY MAJOR SAFETY RELATED MAINTENANCE

Equipment

Work performed

2B Diesel Generator  
output breaker

Overhauled breaker, replaced  
Aux. switch, tested and timed  
breaker.

2B Residual heat removal  
pump

Replaced motor bearing, and  
replaced pump mechanical seal.

JULY  
SUMMARY OF OPERATING EXPERIENCE

UNIT 1

The unit entered the reporting period at a power level of 731 MWe (70% reactor power). The unit remained on line the entire report period ending at a power level of 1043 MWe (99% reactor power). Availability 100% and capacity factor 95.8.

Unit 2

The unit entered the report period at a power level of 909 MWe (85% reactor power). The unit remained on line the entire report period ending at a power level of 575 MWe (58% reactor power). Availability 100% and capacity factor 67.3%.



## 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 30, 1985 the Unit shutdown for scheduled refueling outage.
3. June 14, 1985 is the scheduled month for initial criticality following refueling.
4. Yes, a new LOCA analysis is necessary as a result of the RCFC replacement. The old analysis bounds the results of the new analysis which has been submitted for NRC approval.
5. The new LOCA was submitted for approval February 14, 1985, but a Westinghouse model problem was found March 28, 1985. Revised results to the LOCA analysis will be submitted by April 17, 1985.
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. The Unit is currently scheduled to shutdown September 6, 1985 for its next refueling outage.
3. January 10, 1986 is the scheduled date for startup after refueling.
4. The September 1985 outage will be a ten year ISI outage. Other major jobs will be turbine changeout, and RCFC replacement. Necessary Tech Spec changes and licensing amendments are being investigated.
5. Being investigated.
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 2 is 435.
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

101 Shiloh Blvd.  
Zion, Illinois 60099

August 9, 1985

Director, Office of Inspection  
and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Document Control Desk

Dear Sir:

Enclosed please find the Operating Status Report for the month of  
July, 1985 for Zion Generating Station.

Very truly yours,

K. L. Graesser  
Station Manager  
Zion Station

GLA/ss

Enclosure (11)

cc: D. P. Galle  
J. G. Keppler (NRC)  
L. D. Butterfield  
H. E. Bliss  
INPO  
R. Johnson  
Division of Env. Health  
State of Illinois  
Tech Staff File