



**Commonwealth Edison**

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

April 7, 1988

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Dear Sir:

Enclosed please find the Operating Status Report for the month of March, 1988 for Zion Generating Station.

Sincerely,

George J. Pliml  
Station Manager  
Zion Station

GJP:dap

Enclosure

cc: D. P. Galie  
A. B. Davis (NRC)  
L. D. Butterfield  
H. E. Bliss  
A. Gianopoulos  
L. J. Anastasia  
INPO  
Division of Eng. Health  
State of Illinois  
Tech Staff File  
Director, Office of Inspection  
and Enforcement  
Master File

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# OPERATING DATA REPORT

DOCKET NO. 50-295  
 DATE 4-7-88  
 COMPLETED BY G. Austin  
 TELEPHONE 746 2084

## OPERATING STATUS

1. Unit Name: Zion Unit One
2. Reporting Period: 8803010000 TO 880331 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>744.0</u>	<u>2184.0</u>	<u>124,920.0</u>
12. Number Of Hours Reactor Was Critical	<u>0.0</u>	<u>1306.2</u>	<u>87,391.4</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>0.0</u>	<u>1306.2</u>	<u>84,847.8</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>0</u>	<u>3,949,310</u>	<u>242,164,597</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>1,362,489</u>	<u>78,578,098</u>
18. Net Electrical Energy Generated (MWH)	<u>-5218</u>	<u>1,305,264</u>	<u>78,076,124</u>
19. Unit Service Factor	<u>0.0</u>	<u>59.8</u>	<u>67.9</u>
20. Unit Availability Factor	<u>0.0</u>	<u>59.8</u>	<u>67.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>-0.7</u>	<u>57.5</u>	<u>60.1</u>
22. Unit Capacity Factor (Using DER Net)	<u>-0.7</u>	<u>57.5</u>	<u>60.1</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.9</u>	<u>12.5</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

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

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

Forecast

Achieved

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295  
 UNIT Zion U1  
 DATE 4-7-88  
 COMPLETED BY Geri Austin  
 TELEPHONE 312 746 2084  
X-346

MONTH MARCH

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>-7</u>
2	<u>-7</u>
3	<u>-7</u>
4	<u>-7</u>
5	<u>-7</u>
6	<u>-7</u>
7	<u>-7</u>
8	<u>-7</u>
9	<u>-6</u>
10	<u>-6</u>
11	<u>-7</u>
12	<u>-8</u>
13	<u>-9</u>
14	<u>-9</u>
15	<u>-9</u>
16	<u>-9</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>-9</u>
18	<u>-9</u>
19	<u>-9</u>
20	<u>-7</u>
21	<u>-7</u>
22	<u>-6</u>
23	<u>-5</u>
24	<u>-5</u>
25	<u>-5</u>
26	<u>-6</u>
27	<u>-6</u>
28	<u>-6</u>
29	<u>-7</u>
30	<u>-6</u>
31	<u>-5</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 MARCH

DOCKET NO. 50-295  
 UNIT NAME ZION UNIT 1  
 DATE 4-7-88  
 COMPLETED BY GERRI HUSTON  
 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
1	880224	S	744	C	4	NA	NA	NA	Continued: Cycle 10-11 Refueling Outage.

<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 7-7-88  
 COMPLETED BY G. Austin  
 TELEPHONE 746-2084

## OPERATING STATUS

1. Unit Name: Zion Unit two
2. Reporting Period: 8803010000 TO 8803312400
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

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>2184.0</u>	<u>118,633.0</u>
12. Number Of Hours Reactor Was Critical	<u>744.0</u>	<u>2184.0</u>	<u>86,955.7</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>2184.0</u>	<u>84,547.2</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>2,172,524</u>	<u>6,683,176</u>	<u>346,379,943</u>
17. Gross Electrical Energy Generated (MWH)	<u>729,724</u>	<u>2,251,596</u>	<u>76,361,768</u>
18. Net Electrical Energy Generated (MWH)	<u>700,469</u>	<u>2,158,976</u>	<u>75,274,838</u>
19. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>71.3</u>
20. Unit Availability Factor	<u>100.0</u>	<u>100.0</u>	<u>71.3</u>
21. Unit Capacity Factor (Using MDC Net)	<u>90.5</u>	<u>95.1</u>	<u>61.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>90.5</u>	<u>95.1</u>	<u>61.0</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>14.0</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

23. If Shut Down At End Of Report Period, Estimated Date of Startup: \_\_\_\_\_

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 U2  
 DATE 4-7-88  
 COMPLETED BY G Austin  
 TELEPHONE 312 746 2084  
X-346

MONTH MARCH

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1045
2	1045
3	1047
4	1047
5	1047
6	1048
7	1046
8	1045
9	1048
10	1048
11	1045
12	87.3
13	632
14	633
15	632
16	632

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	632
18	632
19	667
20	1042
21	1047
22	1045
23	1043
24	1047
25	1048
26	1049
27	1048
28	1047
29	838
30	1043
31	1046

## 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

4-9-88

COMPLETED BY

Jesse H. Heston

TELEPHONE

312 746 2084

REPORT MONTH

MARCH

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
3	88 03 12		174.4	A	5	NA	NA	NA	Started ramp down to 65% due to discovery that 3 "Q" type Steam Generator safeties were improperly set.
4	88 03 29		7.7	A	5	NA	NA	NA	Load reduction due to loss of control rod drive vent fans. 2A control rod drive vent fan was restarted and load reduction was then stopped.

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)

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Exhibit I - Same Source

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MARCH

MAJOR SAFETY RELATED MAINTENANCE

<u>Equipment Name</u>	<u>Work Performed</u>
(UNIT 1)	
1A Diesel Generator	Refueling Surveillance and Miscellaneous repairs completed.
1B Diesel Generator	Refueling Surveillance and Miscellaneous repairs completed.
1A Residual Heat Removal Pump	Various work done on system, valves and pump.
1B Residual Heat Removal Pump	Various work done on system, valves and pump.
(UNIT 2)	
Main Steam Safety Valves	Tested and reset 3 main steam safety valves due to valves being found set outside Tech Spec allowable tolerance of $\pm 1\%$ .

MARCH

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

The unit entered the reporting period in cold shutdown for the continuation of the scheduled refueling outage. The unit remained off line the entire month.

UNIT 2

The unit entered the reporting period at 1089 MWe (97% reactor power). The unit remained on line the entire reporting period, ending at a power level of 1090 MWe (98% reactor power) and having an availability factor of 100%.

## 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. Current refueling outage began February 24, 1988. Next refueling outage is currently scheduled to begin on August 31, 1989.
3. The initial criticality following refueling is scheduled for April 28, 1988.
4. A Technical Specification change has been submitted to approve the Westinghouse method of sleeving. Approval is pending. The reload safety review was held in October, 1987 and no unreviewed safety questions were identified for the proposed reload. The On-Site Review will be held before start-up.
5. None
6. None
7. The number of fuel assemblies
  - a) in the core is 193, and
  - b) in the spent fuel storage pool from Zion Unit 1 is 632. Four of the recently discharged 80 assemblies were originally Zion Unit 2 assemblies.
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, 1987 study.

Unit 2 - Answers

1. Zion Unit 2
2. The next refueling outage scheduled to begin in late-October, 1988.
3. Restart after the next refueling outage is currently scheduled for January, 1989.
4. No Technical Specification changes have been identified for the next cycle. The reload safety review is planned for July 1988. The On-site Review will be held after that review.
5. None
6. None.
7. The number of fuel assemblies
  - a) in the core is 193, and
  - b) in the spent fuel storage pool from Zion Unit 2 is 596. Four of the assemblies recently discharged from Zion Unit 1 were originally Unit 2 assemblies.
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, 1987 study.