



Commonwealth Edison
Zion Generating Station
Shiloh Blvd. & Lake Michigan
Zion, Illinois 60099
Telephone 312/746-2084

September 1, 1989

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

Dear Sir:

Enclosed please find the Operating Status Report
for the month of August, 1989 for Zion Generating
Station.

Sincerely,

T. P. Joyce
Station Manager
Zion Station

TPJ/JT/sc

Enclosure

cc: T. Maiman
A. B. Davis (NRC)
L. D. Butterfield
H. E. Bliss
M. Finn
L. J. Ananstasia
INPO
Div. 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 09-05-89
 COMPLETED BY J. Thomas
 TELEPHONE (312)746-2084

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0000 890801 to 2400 890831
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:
N/A

Notes

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	Cumulative
11. Hours In Reporting Period	744.0	5831.0	137,351.0
12. Number Of Hours Reactor Was Critical	668.2	5121.8	97,954.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	2,621.8
14. Hours Generator On-Line	598.6	5005.5	95,154.9
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,732,646	15,205,450	273,046,040
17. Gross Electrical Energy Generated (MWH)	566,619	5,088,453	88,946,609
18. Net Electrical Energy Generated (MWH)	542,018	4,875,162	87,986,251
19. Unit Service Factor	80.4	85.8	69.3
20. Unit Availability Factor	80.4	85.8	69.3
21. Unit Capacity Factor (Using MDC Net)	70.0	80.4	61.6
22. Unit Capacity Factor (Using DER Net)	70.0	80.4	61.6
23. Unit Forced Outage Rate	19.5	13.4	12.4

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

Refueling scheduled for September 7, 1989 for approximately 10 weeks

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

OPERATING DATA REPORT

DOCKET NO. 50-295
 DATE 09-05-89
 COMPLETED BY J. Thomas
 TELEPHONE (302) 746-2084

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0000 890801 to 2400 890831
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:
N/A

Notes

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	Cumulative
11. Hours In Reporting Period	744.0	5831.0	131.064
12. Number Of Hours Reactor Was Critical	744.0	5404.9	932.077
13. Reactor Reserve Shutdown Hours	0.0	0.0	226.1
14. Hours Generator On-Line	744.0	5359.8	94.571.1
15. Unit Reserve Shutdown Hour	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,196.350	15,175.511	275,649.655
17. Gross Electrical Energy Generated (MWH)	730.873	5,087.815	86,162.712
18. Net Electrical Energy Generated (MWH)	699.073	4,864.250	84,627.138
19. Unit Service Factor	100.0	91.9	72.1
20. Unit Availability Factor	100.0	91.9	72.1
21. Unit Capacity Factor (Using MDC Net)	90.3	80.2	62.1
22. Unit Capacity Factor (Using DER Net)	90.3	80.2	62.1
23. Unit Forced Outage Rate	0.0	8.5	14.6
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 | _____ | _____ |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295

UNIT Zion Unit 1

DATE 09-01-89

COMPLETED BY J. Thomas

TELEPHONE (312)746-2084

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1020</u>	17	<u>1018</u>
2	<u>1023</u>	18	<u>1012</u>
3	<u>1024</u>	19	<u>1014</u>
4	<u>1029</u>	20	<u>1034</u>
5	<u>1025</u>	21	<u>926</u>
6	<u>1027</u>	22	<u>-12</u>
7	<u>1024</u>	23	<u>254</u>
8	<u>1024</u>	24	<u>335</u>
9	<u>1020</u>	25	<u>412</u>
10	<u>1016</u>	26	<u>423</u>
11	<u>1015</u>	27	<u>-8</u>
12	<u>1010</u>	28	<u>-12</u>
13	<u>871</u>	29	<u>-12</u>
14	<u>987</u>	30	<u>-12</u>
15	<u>1022</u>	31	<u>20</u>
16	<u>1015</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.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-304

UNIT Zion Unit 2

DATE 09-01-89

COMPLETED BY J. Thomas

TELEPHONE (312)746-2084

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>919</u>	17	<u>809</u>
2	<u>1035</u>	18	<u>867</u>
3	<u>1035</u>	19	<u>816</u>
4	<u>1037</u>	20	<u>834</u>
5	<u>1001</u>	21	<u>934</u>
6	<u>1031</u>	22	<u>1023</u>
7	<u>884</u>	23	<u>1029</u>
8	<u>902</u>	24	<u>1031</u>
9	<u>943</u>	25	<u>983</u>
10	<u>952</u>	26	<u>1025</u>
11	<u>970</u>	27	<u>1015</u>
12	<u>838</u>	28	<u>1011</u>
13	<u>601</u>	29	<u>1014</u>
14	<u>897</u>	30	<u>982</u>
15	<u>912</u>	31	<u>943</u>
16	<u>852</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

50-295
 DOCKET NO. 50-295
 UNIT NAME Zion Unit 1
 DATE 09-01-89
 COMPLETED BY J. Thomas
 TELEPHONE (312)746-2084

REPORT MONTH August

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	890821	F		A	9				Unit 1 Shutdown due to Electro-Hydraulic Control system (EHC) leak on piping to #4 governor and stop valve
5	890823 thru 890827	S		B	5				Unit 1 held down at 50% power for mainstream safety valve testing
6	890827	F		A	1				Unit 1 Shutdown due to mainstream safety valves being set improperly during safety valve testing

- 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 Scram
 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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-304
 UNIT NAME Zion Unit 2
 DATE 09-01-89
 COMPLETED BY J. Thomas
 TELEPHONE (312) 746-2084

REPORT MONTH August

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
6	890812	F	8	A	5				Ramped down to 55% to isolate packing leak on pressurizer spray valve 2PCV-RC07.
7	890817	S	8	B	5				Ramped down to 40% to adjust packing on pressurizer spray valve 2PCV-RC07

- 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

AUGUST

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

The Unit entered the reporting period at a power level of 1058 MWe (99% reactor power). On 8/21/89 at 2307 hours Unit 1 went in Hot Shutdown due to Electrohydraulic Control System (EHC) leak on piping to #4 Governor and Stop Valve. The reactor stayed critical. On 8/23/89 at 0508, Unit 1 was synchronized to the grid. On 8/27/89 at 0049 hours the Unit went off-line, and at 0056 hours the reactor shutdown; we did not stay critical during the outage. The Unit was Shutdown due to Main Steam Safety Valves being set improperly during Safety Valve testing. On 8/30/89 at 0447 hours, Unit 1 went critical. On 8/31/89 at 2010 hours the Unit was synchronized to the grid. the Unit ended at a Power Level of 220 MWe (26% reactor power) and having an availability factor of 89.8%.

UNIT 2

The Unit entered the report period at a power level of 1063 MWe (98% reactor power). The unit remained on line the entire report period ending at a power level of 1058 MWe (99% reactor power) and having an availability factor of 100.0%.

AUGUST

MAJOR SAFETY RELATED MAINTENANCE

Equipment Name

Work Performed

(UNIT 1)

Main Steam Safety
Valves

Tested and reset all twenty (20) valves
as required.

(UNIT 2)

Pressurizer Spray Valve
2PCV-RC07

Adjusted packing to stop packing
leakage.

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. Next refueling outage is currently scheduled to begin on September 7, 1989.
3. Cycle 12 is scheduled to start on November 14, 1989.
4. One Technical Specification change was made for the next cycle (Amendment No. 114). The completed change involves line and valve assignment changes associated with the recently approved Tech Spec change for the Boron Injection Tank (BIT) removal. A revised section 14.2.5.1 of the Zion U.F.S.A.R. was submitted in support of this Tech Spec change.

The reload safety evaluation was held on June 1, 1989. The On-site Review for the Z2C12 reload design is being prepared.

5. None
6. Revised General Operating Procedures were implemented during Cycle 11 operation.
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 last discharge of 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.
9. Zion Station will lose full core discharge capability (for both units) in May 1993, at the end of Unit 2 Cycle 13, based on the latest Nuclear Stations Refueling Schedule.

Unit 2 - Answers

1. Zion Unit 2
2. Cycle 11 is scheduled to shut down for refueling approximately March 22, 1990.
3. Cycle 12 is scheduled to start up May 31, 1990.
4. The reload safety evaluation meeting for Cycle 12 is scheduled for December 6, 1989. The on-site review will be held after this meeting.
5. None
6. Revised General Operating Procedures were implemented during Cycle 11 operation.
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 664.
8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 1) is 2112 fuel assemblies.
9. Zion Station will lose full core discharge capability (for both units) in May 1993, at the end of Unit 2 Cycle 13, based on the latest Nuclear Stations Refueling Schedule.