Commonwealth Edison
Zion Generating Station
101 Shiloh Blvd.
Zion, Illinois 60099
Telephone 708 / 746-2084

October 13, 1994
ZAD-94-010

Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Dear Sir:

Attached is the September Operating Status Report.

E. A. Broccolo
Station Manager
Zion Station

EAB/jlc

Enclosure

cc: Regulatory Assurance
USNRC Document Control
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Master File

ZCLERK-(1)

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OPERATING DATA REPORT

DOCKET NO. 50-295
DATE 10/13/94
COMPLETED BY J. CYGAN
TELEPHONE (708)746-2084
X3169

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0000 090194 to 2400 093094
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
9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

Notes

		This Month	Yr-to-Date	Cumulative
11.	Hours in Reporting Period	720.0	6,551.0	181,895.0
12.	Number Of Hours Reactor Was Critical	720.0	2,316.7	121,752.3
13.	Reactor Reserve Shutdown Hours	0.0	0.0	2,621.8
14.	Hours Generator On-Line	720.0	2,265.2	118,188.3
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,322,957.0	6,921,564.0	345,494,711
17.	Gross Electrical Energy Generated(MWH)	774,133.0	2,293,904.0	112,153,464
18.	Net Electrical Energy Generated (MWH)	746,175.0	2,199,062.0	106,745,633
19.	Unit Service Factor	100.0	34.6	65.0
20.	Unit Availability Factor	100.0	34.6	65.0
21.	Unit Capacity Factor (Using MDC Net)	99.6	32.3	56.4
22.	Unit Capacity Factor (Using DER Net)	99.6	32.3	56.4
23.	Unit Forced Outage Rate	00.0	48.4	16.9

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		

OPERATING DATA REPORT

DOCKET NO. 50-304
DATE 10/13/94
COMPLETED BY J. CYGAN
TELEPHONE (708)746-2084
X3169

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0000 090194 to 2400 093094
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
9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

Notes

		This Month	Yr-to-Date	Cumulative
11.	Hours In Reporting Period	720.0	6,551.0	175,608.0
12.	Number Of Hours Reactor Was Critical	720.0	4,009.8	123,974.9
13.	Reactor Reserve Shutdown Hours	0.0	0.0	226.1
14.	Hours Generator On-Line	720.0	3,983.5	120,989.6
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,325,453.0	12,738,065.0	359,867,852
17.	Gross Electrical Energy Generated(MWH)	777,978.0	4,263,996.0	115,945,158
18.	Net Electrical Energy Generated (MWH)	750,390.0	4,090,174.0	110,493,015
19.	Unit Service Factor	100.0	60.8	68.9
20.	Unit Availability Factor	100.0	60.8	68.9
21.	Unit Capacity Factor (Using MDC Net)	100.2	60.0	60.5
22.	Unit Capacity Factor (Using DER Net)	100.2	60.0	60.5
23.	Unit Forced Outage Rate	0.0	0.0	14.6

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

Refueling Outage Starting 1/5/95 Duration 70 days

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		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-295
UNIT NAME Zion Unit 1
DATE 10/13/94
COMPLETED BY J. CYGAN
TELEPHONE (708) 746-2084 x3169

REPORT MONTH SEPTEMBER 1994

No.	Date	1 Type	Duration (Hours)	2 Reason	Method of Shutting Down 3 Reactor	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
									Unit On-line For The Entire Reporting Period.

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & Licensee Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method
1-Manual
2-Manual Trip
3-Auto Trip
4-Continued
5-Reduced Load

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

5
Exhibit 1 - Same Source

ZCLERK-(4)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-304
UNIT NAME Zion Unit 2
DATE 10/13/94
COMPLETED BY J. CYGAN
TELEPHONE (708) 746-2084 x3169

REPORT MONTH SEPTEMBER 1994

No.	Date	1 Type	Duration (Hours)	2 Reason	Method of Shutting Down 3 Reactor	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
									Unit On-line For The Entire Reporting Period.

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & Licensee Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method
1-Manual
2-Manual Trip
3-Auto Trip
4-Continued
5-Reduced Load

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

5
Exhibit 1 - Same Source

ZCLERK-(5)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295
UNIT Zion Unit 1
DATE 10/13/94
COMPLETED BY J. CYGAN
TELEPHONE (708) 746-2084
x3169

MONTH SEPTEMBER 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1011	17	1042
2	1041	18	1032
3	1041	19	1041
4	1035	20	1042
5	975	21	1041
6	1037	22	1042
7	1042	23	1039
8	1041	24	1041
9	1041	25	1040
10	1042	26	1038
11	1034	27	1030
12	1040	28	1040
13	1042	29	1040
14	1041	30	1038
15	1042	31	
16	1041		

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 10/13/94
COMPLETED BY J. CYGAN
TELEPHONE (708) 746-2084
x3169

MONTH SEPTEMBER 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1014	17	1042
2	1042	18	1044
3	1044	19	1049
4	1037	20	1051
5	975	21	1050
6	1041	22	1049
7	1044	23	1048
8	1045	24	1049
9	1045	25	1049
10	1046	26	1049
11	1045	27	1048
12	1043	28	1049
13	1044	29	1048
14	1040	30	1047
15	1044	31	
16	1045		

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.

SEPTEMBER 1994

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

Unit 1 began September on-line at 1081 MWe power level (100% reactor power) and remained on-line for the entire month of September.

Unit 1 concluded the reporting period at 1079 MWe power level (99.2% reactor power).

UNIT 2

Unit 2 began September on-line at 1086 MWe power level (100% reactor power) and remained on-line for the entire month of September.

Unit 2 concluded the reporting period at 1086 MWe power level (99% reactor power).

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SEPTEMBER 1994

MAJOR MAINTENANCE

EQUIPMENT NAME	WORK PERFORMED
(UNIT 1)	
0A FP	Window Work Scheduled Work Performed OOS: 09/05/94 - 09/09/94
1B D/G	L/O Pressure Switch L/O Pressure Switch Work OOS: 09/27/94 - 09/28/94
1A SW Pp	Major Overhaul OOS: 08/21/94 - *

COMMENT: * No RTS Date.

ZCLERK-(9)

SEPTEMBER 1994

MAJOR MAINTENANCE

EQUIPMENT NAME	WORK PERFORMED
(UNIT 2)	
2A D/G	Replace Turbo Charger Turbo Charger Replaced OOS: 09/06/94 - 09/08/94
2B D/G	Replace Turbo Charger Turbo Charger Replaced OOS: 09/12/94 - 09/13/94

COMMENT:

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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 the 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.

REFUELING INFORMATION REQUEST

UNIT 1 - ANSWERS:

1. Zion Unit 1.

2. Cycle 14 is scheduled to shutdown September ., 1995 for refueling.

3. Cycle 15 is scheduled to start up November 4, 1995.

4. No. There are no outstanding License Amendments required to allow resumption of operation after Refueling Outage Z1R14. However, there are two proposed License Amendments being prepared which will allow installation of modifications during the outage. The first License Amendment will revise the Secondary Undervoltage setpoints based on new engineering calculations. The second License Amendment will extend the Reserve Source of Off-Site AC Power Allowed Outage Time (AOT), on a one time basis, to allow installation of a System Auxiliary Transformer modification on Unit 1. A third proposed License Amendment in preparation will allow storage of fuel enriched to up to 4.65 weight percent U-235, in the New Fuel Storage Vault (NFSV), prior to Z1R14. If this amendment is not received before new fuel receipt, new fuel will be transferred directly into the Spent Fuel Pit for storage.

   The Reload Safety Analysis has not been completed. Initial review of the Reload will be completed in November. Final approval is scheduled to be completed by January 31, 1995.

5. The Reserve Source AOT Extension and NFSV License Amendment Requests are scheduled to be submitted in early October. The Secondary Undervoltage License Amendment Request is scheduled to be submitted in late October.

6. Not applicable.

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 860.

8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 2) is 3012 fuel assemblies (only 2762 locations will be accessible).

9. Zion Station will lose dual full core discharge capability in November 2001, at the beginning of Unit 1 Cycle 19, based on the latest Nuclear Stations Refueling Schedule. Full core discharge capability for a single core will be lost in May 2003, at the beginning of Unit 1 Cycle 20. These projections are based on the current number of available storage cells in the spent fuel pool and does not include the use of the offset tool.

REFUELING INFORMATION REQUEST

UNIT 2 - ANSWERS:

1. Zion Unit 2.

2. Cycle 13 is scheduled to shutdown January 5, 1995 for refueling.

3. Cycle 14 is scheduled to start up March 22, 1995.

4. Yes. A License Amendment was required to allow resumption of operation after Refueling Outage Z2R13. The NIS Instrumentation License Amendment was approved by the NRC on 10/14/93 (License Amendment 149/137). This amendment will allow startup after Z2R13, during which new Source and Intermediate Range NIS detectors will be installed.

5. There are no outstanding proposed License Amendments required for startup from Z2R13. This item is not applicable.

6. Not applicable.

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 824.

8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 1) is 3012 fuel assemblies (only 2762 locations will be accessible).

9. Zion Station will lose dual full core discharge capability in November 2001, at the beginning of Unit 1 Cycle 19, based on the latest Nuclear Stations Refueling Schedule. Full core discharge capability for a single core will be lost in May 2003, at the beginning of Unit 1 Cycle 20. These projections are based on the current number of available storage cells in the spent fuel pool and does not include the use of the offset tool.