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

June 14,1994
ZAD-94-006

Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Dear Sir:

Attached is the May 1994 Operating Status Report.

E. A. Broccolo
Station Manager
Zion Station

EAB/jlc

Enclosure

cc: Regulatory Assurance
USNRC Document Control
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ZCLERK-5 (1) 200128

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OPERATING DATA REPORT

DOCKET NO. 50-295
DATE 06/14/94
COMPLETED BY J. CYGAN
TELEPHONE (708)746-2084
X3169

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0000 050194 to 2400 053194
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	744.0	3,623.0	178,967.0
12.	Number Of Hours Reactor Was Critical	0.0	53.3	119,488.9
13.	Reactor Reserve Shutdown Hours	0.0	0.0	2,621.8
14.	Hours Generator On-Line	0.0	1.8	115,924.9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	0.0	4,085.0	338,577,232
17.	Gross Electrical Energy Generated(MWH)	0.0	316.0	109,859,876
18.	Net Electrical Energy Generated (MWH)	0.0	0.0	104,546,571
19.	Unit Service Factor	0.0	0.0	64.8
20.	Unit Availability Factor	0.0	0.0	64.8
21.	Unit Capacity Factor (Using MDC Net)	0.0	0.0	56.2
22.	Unit Capacity Factor (Using DER Net)	0.0	0.0	56.2
23.	Unit Forced Outage Rate	100.0	99.9	16.8

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: 6/13/94
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 06/14/94
COMPLETED BY J. CYGAN
TELEPHONE (708)746-2084
X3169

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0000 050194 to 2400 053194
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	744.0	3,623.0	172,680.0
12.	Number Of Hours Reactor Was Critical	744.8	1,081.8	121,046.9
13.	Reactor Reserve Shutdown Hours	0.0	0.0	226.1
14.	Hours Generator On-Line	744.0	1,055.5	118,061.6
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,413,040.0	3,278,892.0	350,408,679
17.	Gross Electrical Energy Generated(MWH)	809,696.0	1,097,258.0	112,778,420
18.	Net Electrical Energy Generated (MWH)	781,017.0	1,046,320.0	107,449,161
19.	Unit Service Factor	100.0	29.1	68.4
20.	Unit Availability Factor	100.0	29.1	68.4
21.	Unit Capacity Factor (Using MDC Net)	100.9	27.8	59.8
22.	Unit Capacity Factor (Using DER Net)	100.9	27.8	59.8
23.	Unit Forced Outage Rate	0.0	0.0	14.9

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		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-295
UNIT NAME Zion Unit 1
DATE 06/14/94
COMPLETED BY J. CYGAN
TELEPHONE (708) 746-2084 x3169

REPORT MONTH MAY 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
	05/01	F	744.0	A	3	94-005	EL EL TB	XFMR BJ GEN	Continuation of U1 Generator Trip/ Turbine Trip/Rx Trip. Fire at Generator Bus Duct.

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-304
UNIT NAME Zion Unit 2
DATE 06/14/94
COMPLETED BY J. CYGAN
TELEPHONE (708) 746-2084 x3169

REPORT MONTH MAY 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
									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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295
UNIT Zion Unit 1
DATE 06/14/94
COMPLETED BY J. CYGAN
TELEPHONE (708) 746-2084
x3169

MONTH APRIL 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	-12	17	-12
2	-12	18	-12
3	-12	19	-12
4	-12	20	-12
5	-12	21	-12
6	-12	22	-12
7	-12	23	-12
8	-12	24	-12
9	-12	25	-12
10	-12	26	-12
11	-12	27	-12
12	-12	28	-12
13	-12	29	-12
14	-12	30	-12
15	-12	31	-12
16	-12		

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 06/14/94
COMPLETED BY J. CYGAN
TELEPHONE (708) 746-2084
x3169

MONTH MAY 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1050	17	1050
2	1049	18	1052
3	1049	19	1053
4	1050	20	1051
5	1051	21	1048
6	1048	22	1048
7	1049	23	1048
8	1051	24	1047
9	1053	25	1048
10	1052	26	1049
11	1052	27	1048
12	1050	28	1051
13	1048	29	1050
14	1048	30	1050
15	1050	31	1051
16	1050		

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.

MAY 1994

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

Unit 1 began May off-line. This is a continuation of the Forced Outage caused by a fire at generator bus duct on April 3, 1994 at 0618.

Unit 1 remained off-line for the entire reporting period.

UNIT 2

Unit 2 began May on-line at 1095 MWe power level (100% reactor power).

Unit 2 remained on-line for the entire month of May.

Unit 2 concluded the reporting period at 1100 MWe power level (100% reactor power)

MAY 1994

MAJOR MAINTENANCE

EQUIPMENT NAME	WORK PERFORMED
(UNIT 1)	
U1 Generator	H2 & Electrical Fire Major Generator Repair OOS: 04/03/94 - *
1W Transformer	Transformer Replacement Replace With New Transformer OOS: 04/03/94 - 05/21/94

COMMENT: * No date estimated

MAY 1994

MAJOR MAINTENANCE

EQUIPMENT NAME	WORK PERFORMED
(UNIT 2)	
2B D/G	L/O Flex Hose Leak Replace L/O Flex Hose OOS: 05/05/94 - 05/06/94
2C HD Pp	Scheduled Maintenance Major Overhaul OOS: 05/09/94 - 05/29/94

COMMENT:

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 13 was shutdown October 21, 1993 for refueling.

3. Cycle 14 is scheduled to start up May 19, 1994.

4. Yes, Neutron Flux - NIS Instrumentation unit change per Gamma Metrics Mod. Onsite Review completed 4/8/93, submitted 4/21/93, approval was received on 10/29/93.

5. Not applicable or none proposed.

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 784.

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.

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, Neutron Flux - NIS Instrumentation unit change per Gamma Metrics Mod. Onsite Review completed 4/8/93, submitted 4/21/93, approval was received on 10/29/93.

5. Not applicable or none proposed.

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.

ADDENDUM TO ZION STATION MONTHLY REPORT

Special report submitted in accordance with Zion Tech. Spec. Surv. 4.15.B.5

This report addresses one valid failure of the 2B EDG. The criteria to determine valid tests are in accordance with section C.2.e of Reg. Guide 1.108.

On May 28, 1994 at 1501 the 2B EDG was observed, during PT-10-3 (Containment Isolation Phase B Testing), to be operating with erratic voltage and frequency control. Troubleshooting revealed that a voltage regulator was operating intermittently. The voltage regulator was replaced on the 2B EDG. The voltage regulator is currently being tested by the Com Ed System Operational Analysis Department for further root cause determination. The 2B EDG was returned to service at 1624 on May 28, 1994 following a successful PT-11. This failure was determined to be valid per R.G. 1.108. The 2B EDG was unavailable for approximately 25.5 hours during the course of this event. The test frequency for the 2B EDG is 7 days. As of May 28 this was the 4th valid failure in the last 100 valid Unit 2 demands.