Commonwealth Edison
Zion Generating Station
101 Shiloh Blvd.
Zion, Illinois 60099
Telephone : 08 / 746-2084

December 09, 1992
ZAD-92-014

Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Dear Sir:

Attached is the November 1992 Operating Status Report.

T.P. Joyce
Station Manager
Zion Station

TPJ/jlc

Enclosure

cc: Regualtory Assurance
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160018

ZCLERK-5(1)

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1/1

OPERATING DATA REPORT

DOCKET NO. 50-295
DATE 12/09/92
COMPLETED BY J. Cygan
TELEPHONE (708) 746-2084
X3169

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0000 921101 to 2400 921130
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	8,040.0	165,840.0
12. Number Of Hours Reactor Was Critical	720.0	3,861.3	111,688.5
13. Reactor Reserve Shutdown Hours	0.0	0.0	2,621.8
14. Hours Generator On-Line	720.0	3,567.2	108,212.1
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,202,632	10,363,626	314,394,182
17. Gross Electrical Energy Generated(MWH)	742,453	3,500,823	101,777,575
18. Net Electrical Energy Generated (MWH)	715,539	3,347,562	96,761,329
19. Unit Service Factor	100.0	44.4	65.3
20. Unit Availability Factor	100.0	44.4	65.3
21. Unit Capacity Factor (Using MDC Net)	95.6	40.0	56.1
22. Unit Capacity Factor (Using DER Net)	95.6	40.0	56.1
23. Unit Forced Outage Rate	0.0	10.6	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:

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 12/09/92
COMPLETED BY J. Cygan
TELEPHONE (708) 746-2084
x3169

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0000 921101 to 2400 921130
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	8,040.0	159,553.0
12. Number Of Hours Reactor Was Critical	265.3	5,758.7	114,537.7
13. Reactor Reserve Shutdown Hours	0.0	0.0	226.1
14. Hours Generator On-Line	265.3	5,747.0	111,579.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	499,246	16,703,931	330,692,340
17. Gross Electrical Energy Generated(MWH)	162,128	5,627,978	106,167,935
18. Net Electrical Energy Generated (MWH)	147,571	5,365,056	101,110,664
19. Unit Service Factor	36.8	71.5	69.9
20. Unit Availability Factor	36.8	71.5	69.9
21. Unit Capacity Factor (Using MDC Net)	19.7	64.2	60.9
22. Unit Capacity Factor (Using DER Net)	19.7	64.2	60.9
23. Unit Forced Outage Rate	0.0	25.1	15.6

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Z2R12 - Refueling 11/12/92 - 02/25/93

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 02/25/92
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 12/09/92
COMPLETED BY J. Cygan
TELEPHONE (708) 746-2084 x3169

REPORT MONTH November 1992

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
	011192	F	720.0	F	5				Unit was on line the entire month. Power was limited to 96% due to Delta T fluctuation.

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

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-304
UNIT NAME Zion Unit 2
DATE 12/09/92
COMPLETED BY J. Cygan
TELEPHONE (708) 746-2084 x3169

REPORT MONTH November 1992

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Compogent Code[5]	Cause & Corrective Action to Prevent Recurrence
	12/11/92	S	454.45	C					Reactor came down on 11/12/92 for Refueling Outage.

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance of 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(5)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295
UNIT Zion Unit 1
DATE 12/09/92
COMPLETED BY J. Cygan
TELEPHONE (708) 746-2084
x3169

MONTH November 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	963	17	1,022
2	997	18	1,022
3	1,008	19	1,022
4	1,003	20	1,022
5	1,013	21	1,008
6	1,011	22	995
7	939	23	1,024
8	941	24	1,023
9	986	25	1,022
10	1,001	26	918
11	963	27	949
12	987	28	974
13	994	29	973
14	1,004	30	996
15	1,013		
16	1,020		

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 12/09/92
COMPLETED BY J. Cygan
TELEPHONE (708) 746-2084
x3169

MONTH November 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	613	17	-12
2	602	18	-12
3	600	19	-12
4	592	20	-12
5	587	21	-12
6	582	22	-12
7	575	23	-12
8	573	24	-12
9	570	25	-12
10	558	26	-12
11	524	27	-12
12	-8	28	-12
13	-13	29	-12
14	-13	30	-12
15	-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.

ZCLERK-5(7)

November 1992

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

Unit 1, began November at 96% Power. The unit has been limited to 96% power based on delta T fluctuation due to Eagle 21.

UNIT 2

Unit 2, began November at 643 MWe power level (62.0% reactor power), remained online through 0115 on 11/12/92. Reactor went into cold shutdown, Mode 5, on 11/13/92. On 11/30/92 Mode changed to 6 for Refueling Outage.

ZCLERK-5(8)

November 1992

MAJOR SAFETY RELATED MAINTENANCE

Equipment Name	Work Performed
(UNIT 1)	
0A Fire Pump	Sensing Line Broke: Line Repaired & PCV Repaired OOS: 11/01/92 - 11/05/92
1A HDR Pump	Seal Work: Parts On Site - Work Restarted OOS: Continue - **
0A CC Pump	Breaker Inspection: Brkr Repaired - New W. R. Issued Z26097 OOS: Continue - 11/02/92
#1 Pp Air Comp	Tech Staff Troubleshooting: Head Repair Required OOS: Continue - *
1D CD Pump	Strainer P High: Strainer Cleaned OOS: 11/05/92 - 11/06/92
0 D/G	Scheduled Work: Work Completed, PT-11 Completed OOS: 11/16/92 - 11/23/92
1A IA Comp	Breaker Problem: Work Completed OOS: 11/20/92 - 11/22/92

COMMENT:

* Should complete work by 12/06/92

** Should complete work by 12/07/92

November 1992

MAJOR SAFETY RELATED MAINTENANCE

Equipment Name	Work Performed
(UNIT 2)	
2B HDR Pump	Cooler/Seals Leak OOS: Continue - *
2C FW Pump	Seal Leak OOS: Continue - *
2A CD/CDB Pp	Check Valve Work OOS: Continue - *
2A SW Pump	Breaker Inspection: Scheduled Outage Work OOS: 11/05/92 - 11/20/92
REFUELING OUTAGE	OOS: 11-12-92

COMMENTS:
* Work Will Be Completed During The Refueling Outage.

ZCLERK-5(10)

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. Cycle 13 is scheduled to shutdown September 9, 1993 for refueling.

3. Cycle 14 is scheduled to start up January 7, 1994.

4. No Technical Specification changes are planned for Z1C14 so far.

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 2112 fuel assemblies. Plans are being developed to rerack the Spent Fuel Pool to increase storage capacity to 3012 assemblies.

9. Zion Station will lose dual full core discharge capability in January 1994, at the beginning of Unit 1 Cycle 14, based on the latest Nuclear Stations Refueling Schedule. Full core discharge capability for a single core will be lost in January 1996, at the beginning of Unit 2 Cycle 15.

Unit 2 - Answers

1. Zion Unit 2

2. Cycle 12 was November 12, 1992 for refueling.

3. Cycle 13 is scheduled to start up February 20, 1993.

4. Yes. Technical Specification changes have been made to include the Westinghouse VANTAGE fuel design being loaded for Z2C13, and effects of the vessel fluency reduction program beginning with Z2C13.

   A Tech Spec change has also been made that will allow CECo to use a CORE OPERATING LIMITS REPORT (COLR) in place of some existing Tech Spec Limits.

5. License amendments for the Z2C13 reload were submitted in Summer 1991, and were approved July 26, 1992 Amendment 128.

6. License considerations associated with the Z2C13 reload include the new VANTAGE fuel design, and the new LOCA analysis with higher core power peaking factors required for the low-low-leakage loading pattern used in Z2C13.

7. The number of fuel assemblies

   a) in the core is 0, and
   b) in the spent fuel storage pool from Zion Unit 2 is 933.

8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 1) is 2112 fuel assemblies. Plans are being developed to rerack the Spent Fuel Pool to increase storage capacity to 3012 assemblies.

9. Zion Station will lose dual full core discharge capability in January 1994, at the beginning of Unit 1 Cycle 14, based on the latest Nuclear Stations Refueling Schedule. Full core discharge capability for a single core will be lost in January 1996, at the beginning of Unit 2 Cycle 15.

ADDENDUM TO ZION STATION MONTHLY REPORT

Special Report submitted in accordance with Zion Tech Spec. Surv. 4.14.B. 5

This report addresses two invalid failures of the 0 EDG. The criteria to determine valid tests and failures is in accordance with section C. 2.e of Reg. Guide 1.108.

On November 20, 1992 the 0 EDG tripped during a maintenance run for maintenance verification. The engine had been Out Of Service (O. O. S.), for preventative maintenance (including the replacement of 4 cylinders), for approximately six days. The engine was started, in the maintenance mode, and tripped prior to reaching rated speed. It is currently believed that this trip was caused by the work performed. The EDG was returned to service on November 22, 1992 following the successful completion of PT-11. This failure was determined to be invalid per Reg. Guide 1.108 C. 2.e.

On November 20, 1992 the 0 EDG was secured, during a maintenance run, in response to an unusual noise near the 2L cylinder. Investigation revealed an improperly installed fuel cam key for the 2L cylinder. The key had been improperly installed during the maintenance immediately preceding this run. The EDG was returned to service, following the repositioning of the fuel cam key, on November 22, 1992 following the successful completion of PT-11. This failure was determined to be invalid per Reg. Guide 1.108 C. 2.e.

As of November 30, 1992 the test frequency for 0 EDG remains at 31 days.