Commonwealth Edison Company
Zion Generating Station
101 Shiloh Boulevard
Zion, IL 60099-2797
Tel 847-746-2084

ComEd

February 14, 1997

Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Dear Sir:

Attached is the January Operating Status Report.

W. S. Lacey
Station General Manager
Zion Station

WSL/jlc

Enclosure

cc: Regulatory Assurance
USNRC Document Control
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IE24

270009

ZCLERK-1

OPERATING DATA REPORT

DOCKET NO. 50-295
DATE 2/14/97
COMPLETED BY J. CYGAN
TELEPHONE (847)746-2084
X3169

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0000 010197 to 2400 013197
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	744.0	202,392.0
12.	Number Of Hours Reactor Was Critical	744.0	744.0	138,247.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	2,612.8
14.	Hours Generator On-Line	744.0	744.0	134,309.9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,326,584.0	2,326,584.0	396,888,525
17.	Gross Electrical Energy Generated(MWH)	774,163.0	774,163.0	129,310,310
18.	Net Electrical Energy Generated (MWH)	738,405.0	738,405.0	123,230,127
19.	Unit Service Factor	100.0	100.0	66.4
20.	Unit Availability Factor	100.0	100.0	66.4
21.	Unit Capacity Factor (Using MDC Net)	95.4	95.4	58.5
22.	Unit Capacity Factor (Using DER Net)	95.4	95.4	58.5
23.	Unit Forced Outage Rate	00.0	00.0	15.9

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

Maintenance and Surveillance Outage Starting on 5/3/97 and Lasting 21 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	_____	_____

OPERATING DATA REPORT

DOCKET NO. 50-304
DATE 2/14/97
COMPLETED BY J. CYGAN
TELEPHONE (847)746-2084
X3169

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0000 010197 to 2400 013197
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	00.0	196,105.0
12.	Number Of Hours Reactor Was Critical	00.0	00.0	138,378.7
13.	Reactor Reserve Shutdown Hours	00.0	00.0	226.1
14.	Hours Generator On-Line	00.0	00.0	135,098.8
15.	Unit Reserve Shutdown Hours	00.0	00.0	0.0
16.	Gross Thermal Energy Generated (MWH)	00.0	00.0	402,647,369
17.	Gross Electrical Energy Generated(MWH)	00.0	00.0	130,102,951
18.	Net Electrical Energy Generated (MWH)	00.0	00.0	124,095,088
19.	Unit Service Factor	00.0	00.0	68.9
20.	Unit Availability Factor	00.0	00.0	68.9
21.	Unit Capacity Factor (Using MDC Net)	00.0	00.0	60.8
22.	Unit Capacity Factor (Using DER Net)	00.0	00.0	60.8
23.	Unit Forced Outage Rate	00.0	00.0	13.3

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: 3/2/97
26. Units In Test Status (Prior to Commercial Operation): Forecast Achieved

INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

ZCLERK-3

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-295
UNIT NAME Zion Unit 1
DATE 2/14/97
COMPLETED BY J. CYGAN
TELEPHONE (847) 746-2084 x3169

REPORT MONTH January 1997

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
1	01/03/97	S	43.5	*H	5				Unit 1 Ramped Down To 40% Power To Allow For A Containment Entry To Evaluate Paint Integrity.
2	01/11/97	S	13.0	*H	5				Unit 1 Ramped Down To 40% Power To Inspect The Containment Recirc Sump Cover.
									Unit 1 Remained On Line For The Entire Month Of January.

*H - Please refer to column on right (Cause & Corrective Actions)

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 2/14/97
COMPLETED BY J. CYGAN
TELEPHONE (847) 746-2084 x3169

REPORT MONTH January 1997

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
7	01/01/97	S	744.0	C	1				Unit 2 Remained Off-Line For The Entire Month Of January For Refueling Outage Z2R14.

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 2/14/97
COMPLETED BY J. CYGAN
TELEPHONE (847) 746-2084 x3169

MONTH January 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1028	17	1029
2	1029	18	1031
3	771	19	1031
4	541	20	1031
5	936	21	1030
6	1025	22	1034
7	1025	23	1031
8	1026	24	1029
9	1026	25	1032
10	1024	26	1028
11	751	27	1028
12	1028	28	1026
13	1026	29	1027
14	1027	30	1028
15	1027	31	1035
16	1030		

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 2/14/97
COMPLETED BY J. CYGAN
TELEPHONE (847) 746-2084
x3169

January 1997

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

INST CTIONS

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.

January 1997

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

Unit 1 began January on-line at 1082 MWe power level (99.6% reactor power).

On January 3, 1997 a rampdown to 40% Rx power occurred to allow for a containment entry to evaluate paint integrity. The unit was back at full power on January 5, 1997.

On January 11, 1997 a rampdown to 40% Rx power occurred to inspect the containment recirc sump cover. The unit was back at full power on January 11, 1997.

Unit 1 remained on line for the entire reporting period and concluded the month of January at 1093 MWe power level (100% reactor power) with an availability factor of 100.0%.

UNIT 2

Unit 2 began January off-line for a continuation of refueling outage (Z2R14). Unit 2 is scheduled to be back on-line on March 2, 1997.

January 1997

MAJOR MAINTENANCE

EQUIPMENT NAME	WORK PERFORMED
(UNIT 1)	
1A HD PP	Changeout Contaminated Oil Completed OOS: 12/27/96 - 01/14/97
1B C/CB PP	Cleaning/Inspection of Motor/Pump OOS: 12/30/96 - *
1A SA COMP	Breaker Repairs Completed OOS: 12/28/96 - 01/04/97
1A FW PP	Motor Housing Oil Leaks Completed OOS: 01/03/97 - 01/05/97
1A M-G SET	Inspect Coupling & Alignment Completed OOS: 01/15/97 - 01/22/97
1A CHARGING PP	Pressure Switch Completed OOS: 01/23/97 - 01/24/97
1A CHARGING PP	Inspection and Leak Repairs Completed OOS: 01/21/97 - 01/22/97

COMMENT: * No return to service date.

January 1997

MAJOR MAINTENANCE

EQUIPMENT NAME	WORK PERFORMED
(UNIT 2)	
2A IA Comp	Compressor Replacement OOS: 07/14/96 - *

COMMENT: * No return to service date.

ZCLERK-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 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 15 is scheduled to shutdown September 6, 1997 for refueling.

3. Cycle 16 is scheduled to start up November 5, 1997.

4. The following License Amendments are required to allow resumption of operation after Refueling Outage Z1R15.

   - Increase Steam Generator plugging limit. Required to ensure Unit derating will not be required based on Steam Generator plugging.
   - Authorize Steam Generator tube sleeving per new Topical Report. Required to allow additional sleeving options to minimize plugging.
   - Authorize new F* limit on tube re-roll and new EF* re-roll limit. Required to support increased plugging limit. Required to allow additional re-roll options to minimize plugging.

   The Reload Safety Analysis for cycle 16 will be completed during Z1R15.

5. Projected submittal of License Amendments: March, 1997.

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 932.

8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 2) is 3012 fuel assemblies. Of these 3012 storage locations, 11 are unavailable and 239 are inaccessible pending completion of the Offset Tool Modification (M22-90-0-008A, C).

9. The projected date of the last refueling than can be discharged to the spent fuel pool, assuming the present licensed capacity of 3012 locations (11 out of 3012 are unavailable) is April 2006 (from Z1R21) based on the 1997 Projected ComEd Overhaul Schedule. This assumes the Offset Tool Modification (M22-90-0-008A, C) will be installed prior to June 2003. This projected date is subject to change based on outage durations or Overhaul Schedule changes.

REFUELING INFORMATION REQUEST

UNIT 2 - ANSWERS:

1. Zion Unit 2.

2. Cycle 14 shutdown September 19, 1996 for refueling.

3. Cycle 15 is scheduled to start up March 2, 1997.

4. There are no outstanding License Amendments required for startup of Unit 2 following Refueling Outage Z2R14.

5. There are no outstanding proposed License Amendments required for startup of Unit 2 following Refueling Outage Z2R14.

6. New fuel reloaded into Unit 2 Cycle 15 core will incorporate the following design changes:

   - Selected standard Integral Fuel Burnable Absorber (IFBA) patterns have been updated following a Westinghouse Core Engineering investigation of peripheral IFBA rod loading within the fuel assembly. The net effect of this change is to achieve the most efficient absorber orientation at Beginning of Life (BOL) and for burnups through 5000 MWD/MTU. These patterns provide self-limiting features that mitigate the extent of DNB propagation. In addition, these IFBA patterns provide significant peaking factor and reactivity holddown benefits.

   - IFBA rods will have a nominal B-10 enrichment loading with a reduction in backfill pressure from 200 to 100 psig. The nominal B-10 loading is 1.77 mg/inch. Rod internal gas pressure has an effect on two of the fuel rod design criteria that are evaluated for the reload: Rod internal pressure and clad stress criteria. The Zion Unit 2 Cycle Specific fuel design analysis has been performed and has demonstrated that the design criteria were met.

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 984.

8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 1) is 3012 fuel assemblies. Of these 3012 storage locations, 11 are unavailable and 239 are inaccessible pending completion of the Offset Tool Modification (M22-90-0-008A, C).

9. The projected date of the last refueling that can be discharged to the spent fuel pool, assuming the present licensed capacity of 3012 locations (11 out of 3012 are unavailable) is April 2006 (from Z1R21) based on the 1996 Projected ComEd Overhaul Schedule. This assumes the Offset Tool Modification (M22-90-0-008A, C) will be installed prior to June 2003. This projected date is subject to change based on outage durations or Overhaul Schedule changes.