



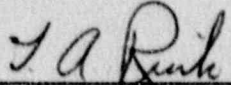
Commonwealth Edison
Zion Generating Station
101 Shiloh Blvd.
Zion, Illinois 60099
Telephone 312/746-2084

January 2, 1990

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

Dear Sir:

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



for T.P. Joyce
Station Manager
Zion Station

TPJ/JT/im

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 IL
Tech Staff File
Director, Office of Inspection
and Enforcement
Master File

9001190291 891231
PDR ADCK 05000295
R PDC

OPERATING DATA REPORT

DOCKET NO. 50-295
 DATE 1-5-90
 COMPLETED BY L. Thomas
 TELEPHONE (708)746-2084

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0000 891201 to 891231
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:

Notes

N/A

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	<u>744.0</u>	<u>8760.0</u>	<u>140,280.0</u>
12. Number Of Hours Reactor Was Critical	<u>0.0</u>	<u>5268.3</u>	<u>98,077.6</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>2,621.8</u>
14. Hours Generator On-Line	<u>0.0</u>	<u>5152.0</u>	<u>95,299.7</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0.0</u>	<u>15,620,439</u>	<u>276,522,069</u>
17. Gross Electrical Energy Generated (MWH)	<u>0.0</u>	<u>5,224,653</u>	<u>89,072,809</u>
18. Net Electrical Energy Generated (MWH)	<u>0.0</u>	<u>4,999,460</u>	<u>84,706,864</u>
19. Unit Service Factor	<u>0.0</u>	<u>59.0</u>	<u>68.0</u>
20. Unit Availability Factor	<u>0.0</u>	<u>59.0</u>	<u>68.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.0</u>	<u>55.0</u>	<u>58.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.0</u>	<u>55.0</u>	<u>58.0</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>21.0</u>	<u>13.0</u>

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

Refueling Unit 1, shutdown on 9-7-89, Unit 1 went into an extended outage on 11-15-89 at 1900 hours, the unit remained in an extended outage for the continuation of the month.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 1-14-90

26. Units in Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	<u> </u>	<u> </u>
INITIAL ELECTRICITY	<u> </u>	<u> </u>
COMMERCIAL OPERATION	<u> </u>	<u> </u>

OPERATING DATA REPORT

DOCKET NO. 50-304
 DATE 1-5-90
 COMPLETED BY J. Thomas
 TELEPHONE (708) 746-2084

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0000 891201 to 0000 891231
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

Notes

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

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	<u>744.0</u>	<u>8,760.0</u>	<u>133,993.0</u>
12. Number Of Hours Reactor Was Critical	<u>744.0</u>	<u>8,333.9</u>	<u>100,111.0</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>226.1</u>
14. Hours Generator On-Line	<u>679.8</u>	<u>8,224.6</u>	<u>97,437.0</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,120,840</u>	<u>24,001,503</u>	<u>289,469,647</u>
17. Gross Electrical Energy Generated (MWH)	<u>708,632</u>	<u>8,038,907</u>	<u>92,345,765</u>
18. Net Electrical Energy Generated (MWH)	<u>669,607</u>	<u>7,694,444</u>	<u>87,967,290</u>
19. Unit Service Factor	<u>91.0</u>	<u>94.0</u>	<u>73.0</u>
20. Unit Availability Factor	<u>91.0</u>	<u>94.0</u>	<u>73.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>87.0</u>	<u>84.0</u>	<u>63.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>87.0</u>	<u>84.0</u>	<u>63.0</u>
23. Unit Forced Outage Rate	<u>9.0</u>	<u>6.0</u>	<u>14.0</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling outage for Unit 2 to start on March 22, 1990 for approximately ten (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	_____	_____

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December

DOCKET NO. 50-295
 UNIT NAME Zion Unit 1
 DATE 01/02/90
 COMPLETED BY J. Thomas
 TELEPHONE (708)746-2084

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
7	890907	S	744.0	C	1				Unit 1 Shutdown for refueling Cycle XI-XII

¹
F: Forced
S: Scheduled

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

³
Method _____
 1-Annual
 2-Manual Scram
 3-Auto Scram
 4-Continued
 5-Reduced Load
 9-Other

⁴
Exhibit C - 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 Zirc Unit 2
DATE 01/02/90
COMPLETED BY J. Thomas
TELEPHONE (708)746-2084

REPORT MONTH December

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
12	12/01/89 thru 12/04/89	F	64.2	A	1				Unit 2 came off-line due to leakage from Loop D cold leg RCS sample valve 2SS9358C. The reactor stayed critical.

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295

UNIT Zion Unit 1

DATE 01/02/90

COMPLETED BY J. Thomas

TELEPHONE (708)746-2084

MONTH December

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

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 01/02/90

COMPLETED BY J. Thomas

TELEPHONE (708)746-2084

MONTH December

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	257	17	1021
2	-27	18	1027
3	-30	19	1035
4	397	20	1043
5	999	21	1044
6	959	22	1043
7	1021	23	1042
8	1016	24	1026
9	1016	25	989
10	1013	26	931
11	1014	27	1019
12	1019	28	937
13	1019	29	965
14	1015	30	1018
15	1024	31	1016
16	1025		

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.

DECEMBER

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

The Unit entered the reporting period in cold shutdown for the continuation of the scheduled refueling outage. Unit 1 went into an extended outage on 11/15/89 at 1900 hours, the unit remained offline the entire month.

UNIT 2

The Unit entered the report period at a power level of 1071 MWe (99% reactor power). Unit 2 came off-line on 12/01/89 at 1022 hours due to leakage from loop D cold leg RCS sample valve 2SS9358C. The reactor stayed critical. On 12/04/89 at 0234 hours, Unit 2 was synchronized to the grid. The unit ended the report period at a power level of 1075 MWe (99% reactor power) and having an availability factor of 91.4%.

DECEMBER

MAJOR SAFETY RELATED MAINTENANCE

Equipment Name

Work Performed

(UNIT 1)

Unit in Refueling Outage

(UNIT 2)

Loop D Pressurizer
Spray valve
2PCV-RC07

Replaced valve.

Letdown Relief Valve
2VCB117

Valve replaced due to leak through.

Loop D Cold Leg
RCS Sample valve
2SS9358C

Replaced leakage from valve.

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. The current refueling outage began on September 7, 1989.
3. Cycle 12 is scheduled to go on-line January 14, 1990.
4. The On-site Review for the Z1C12 reload design has been approved.
5. None
6. None
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 708.
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. Full core discharge capability for a single core will be lost in November, 1994, at the end of Unit 2 Cycle 14.

Unit 2 - Answers

1. Zion Unit 2
2. Cycle 11 is scheduled to shut down for refueling on March 22, 1990.
3. Cycle 12 is scheduled to start up May 31, 1990.
4. The reload safety evaluation meeting for Cycle 12 was held on December 12, 1989. The on-site review for the Z2C12 reload design will be held prior to Unit start-up.
5. None
6. None
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. Full core discharge capability for a single core will be lost in November, 1994, at the end of Unit 2 Cycle 14.