



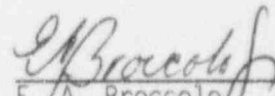
Zion Generating Station
101 Shiloh Blvd.
Zion, Illinois 60099
Telephone 708 / 746-2084

December 15, 1994
ZAD-94-012

Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Dear Sir:

Attached is the November Operating Status Report.


E. A. Broccoli
Station Manager
Zion Station

EAB/jlc

Enclosure

cc: Regulatory Assurance
USNRC Document Control
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Operating Engrs.
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Master File

ZCLERK-(1)

9412210032 941130
PDR ADOCK 05000295
PDR

JE24

OPERATING DATA REPORT

DOCKET NO. 50-295
 DATE 12/15/94
 COMPLETED BY J. CYGAN
 TELEPHONE (708)746-2084
X3169

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0000 110194 to 2400 113094
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	8,016.0	183,360.0
12. Number Of Hours Reactor Was Critical	488.7	3,514.5	122,950.1
13. Reactor Reserve Shutdown Hours	0.0	0.0	2,621.8
14. Hours Generator On-Line	466.6	3,433.4	119,356.5
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,453,010.0	10,590,629.0	349,163,776
17. Gross Electrical Energy Generated (MWH)	484,804.0	3,514,112.0	113,373,672
18. Net Electrical Energy Generated (MWH)	463,835.0	3,371,453.0	107,918,024
19. Unit Service Factor	64.8	42.8	65.1
20. Unit Availability Factor	64.8	42.8	65.1
21. Unit Capacity Factor (Using MDC Net)	61.9	40.4	56.6
22. Unit Capacity Factor (Using DER Net)	61.9	40.4	56.6
23. Unit Forced Outage Rate	35.2	40.9	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 12/15/94
 COMPLETED BY J. CYGAN
 TELEPHONE (708)746-2084
X3169

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0000 110194 to 2400 113094
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	8,016.0	177,073.0
12. Number Of Hours Reactor Was Critical	720.0	5,474.8	125,439.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	226.1
14. Hours Generator On-Line	720.0	5,448.5	122,454.6
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,261,981.0	17,414,224.0	364,544,011
17. Gross Electrical Energy Generated (MWH)	757,635.0	5,829,145.0	117,510,307
18. Net Electrical Energy Generated (MWH)	726,480.0	5,595,344.0	111,998,185
19. Unit Service Factor	100.0	68.0	69.2
20. Unit Availability Factor	100.0	68.0	69.2
21. Unit Capacity Factor (Using MDC Net)	97.0	67.1	60.8
22. Unit Capacity Factor (Using DER Net)	97.0	67.1	60.8
23. Unit Forced Outage Rate	0.0	0.0	14.4
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Refueling Outage Starting 1/6/95 Duration 76 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 12/15/94
 COMPLETED BY J. CYGAN
 TELEPHONE (708) 746-2084 x3169

REPORT MONTH NOVEMBER 1994

No.	Date	1 Type	Duration (Hours)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
	11/03/94	F	44.8	A	2				Repaired Oil Leak On The Inlet Flange For The #11 Bearing On The Exciter On The Main Generator
	11/04/94	F	208.6	A	2				Repaired Ground On The #11 Bearing On The Main Generator

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 12/15/94
 COMPLETED BY J. CYGAN
 TELEPHONE (708) 746-2084 x3169

REPORT MONTH NOVEMBER 1994

No.	Date	Type ¹	Duration (Hours)	Reason ²	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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295
 UNIT Zion Unit 1
 DATE 12/15/94
 COMPLETED BY J. CYGAN
 TELEPHONE (708) 746-2084
x3169

MONTH NOVEMBER 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1042</u>	17	<u>1049</u>
2	<u>991</u>	18	<u>1048</u>
3	<u>6</u>	19	<u>1048</u>
4	<u>-13</u>	20	<u>1048</u>
5	<u>-13</u>	21	<u>1046</u>
6	<u>-13</u>	22	<u>1047</u>
7	<u>-13</u>	23	<u>1047</u>
8	<u>-13</u>	24	<u>930</u>
9	<u>-13</u>	25	<u>920</u>
10	<u>-13</u>	26	<u>1014</u>
11	<u>-13</u>	27	<u>1043</u>
12	<u>-13</u>	28	<u>1044</u>
13	<u>90</u>	29	<u>1044</u>
14	<u>856</u>	30	<u>1044</u>
15	<u>1038</u>	31	<u></u>
16	<u>1048</u>		

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 12/15/94
 COMPLETED BY J. CYGAN
 TELEPHONE (708) 746-2084
x3169

MONTH NOVEMBER 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1052</u>	17	<u>1042</u>
2	<u>1050</u>	18	<u>1036</u>
3	<u>1029</u>	19	<u>1026</u>
4	<u>1024</u>	20	<u>1016</u>
5	<u>1026</u>	21	<u>1007</u>
6	<u>1036</u>	22	<u>996</u>
7	<u>1034</u>	23	<u>988</u>
8	<u>1034</u>	24	<u>979</u>
9	<u>1034</u>	25	<u>967</u>
10	<u>1027</u>	26	<u>957</u>
11	<u>1022</u>	27	<u>946</u>
12	<u>1025</u>	28	<u>927</u>
13	<u>1029</u>	29	<u>917</u>
14	<u>1044</u>	30	<u>909</u>
15	<u>1045</u>	31	<u></u>
16	<u>1046</u>		

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.

NOVEMBER 1994

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

Unit 1 began November on-line at 1087 MWe power level (99.75% reactor power)

Unit 1 was taken off-line on November 3, 1994 at 0252 for oil leak repairs on the exciter on the main generator. The leak was on the inlet flange for the #11 bearing. The oil leak was repaired and while attempting to return to service it was noted that the #11 bearing of the generator had an apparent ground condition. The unit was taken back down and the ground was investigated and repaired. The unit was back on line at 1617 on November 13, 1994.

Unit 1 concluded the reporting period at 1085 MWe power level (99.8% reactor power).

UNIT 2

Unit 2 began November on-line at 1091 MWe power level (99.2% reactor power) and remained on-line for the entire month of November.

Unit 2 concluded the reporting period at 954 MWe power level (86% reactor power).

NOVEMBER 1994

MAJOR MAINTENANCE

EQUIPMENT NAME

WORK PERFORMED

(UNIT 1)

'0' Pp Comp

Filter & Oil Change
Filter & Oil Change Done
OOS: 11/15/94 - 11/16/94

1B SA Comp

Bearing Oil Filter
Bearing Oil Filter Changed
OOS: 11/16/94 - 11/19/94

COMMENT:

ZCLERK-(9)

NOVEMBER 1994

MAJOR MAINTENANCE

<u>EQUIPMENT NAME</u>	<u>WORK PERFORMED</u>
(UNIT 2)	
2B CW Pp	Window Work Window Work Complete OOS: 10/17/94 - *
2B SW Pp	Window Work Window Work Complete OOS: 10/17/94 - **
2A RHR Pp	Window Work Window Work Complete OOS: 11/07/94 - 11/10/94
2B RHR Pp	Window Work Window Work Complete OOS: 11/13/94 - 11/16/94
2B D/G	TA-94-039 TA Installed OOS: 11/17/94 - 11/17/94
2A CHG Pp	Window Work Window Work Complete OOS: 11/28/94 - ***

COMMENT: * 2B CW Pp No RTS Date
** 2B SW Pp No RTS Date
*** 2A CHG Pp RTS 12/01/94

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 7, 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 License Amendment Request was submitted in November. The New Fuel Storage Vault License Amendment Request has been approved by the On Site Review Committee and is under review by the Off Site Review Committee. Submittal should occur during December. The Degraded Voltage License Amendment Request is in On Site Review. Submittal to the NRC will follow as soon as possible.
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.