OPERATING DATA REPORT

DOCKET NO. 50-295
DATE 9-7-79
COMPLETED BY J. Jeffers
TELEPHONE 312-746-2084 Ext. 363

OPERATING STATUS

1. Unit Name: Zion Unit 1
2. Reporting Period: 0001 790801 TO 2400 790831
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	Since Commercial Operation 12-31-73 Cumulative
11. Hours In Reporting Period	744	5,831	49,679
12. Number Of Hours Reactor Was Critical	684.2	5,234	36,294.6
13. Reactor Reserve Shutdown Hours	0	0	2621.8
14. Hours Generator On-Line	678.9	5160.8	35,282.3
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,072,752	15,606,076	97,342,034
17. Gross Electrical Energy Generated (MWH)	677,850	5,163,150	31,571,245
18. Net Electrical Energy Generated (MWH)	647,776	4,915,410	29,862,488
19. Unit Service Factor	91.3	88.5	71.0
20. Unit Availability Factor	91.3	88.5	71.0
21. Unit Capacity Factor (Using MDC Net)	83.7	81.1	58.0
22. Unit Capacity Factor (Using DER Net)	83.7	81.1	58.0
23. Unit Forced Outage Rate	8.8	11.5	11.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling 10-6-79 8 weeks

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 9-1-79
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	N/A	
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295
UNIT Zion Unit 1
DATE 9-7-79
COMPLETED BY J. Jeffers
TELEPHONE 312-246-2084
EXT. 363

MONTH August, 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1019	17	882
2	1020	18	-3
3	1010	19	817
4	1034	20	992
5	1003	21	1007
6	1045	22	1009
7	1016	23	1021
8	1023	24	1010
9	1037	25	968
10	983	26	-28
11	596	27	712
12	456	28	1010
13	917	29	1009
14	1010	30	1006
15	985	31	458
16	968		

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.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August, 1979

DOCKET NO. 50-295
UNIT NAME Zion Unit 1
DATE 9-7-79
COMPLETED BY J. Jeffeis
TELEPHONE 312-746-2084 EXT. 363

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
19	790811	F	0	B	-	N/A	N/A	N/A	Unit ramped down due to diesel not starting
20	790817	F	24.3	H	3	N/A	N/A	N/A	Reactor trip caused by severe lightening
21	790826	F	28.1	B	1	N/A	N/A	N/A	Unit was shut down to repair minor secondary steam leaks in the containment
22	790831	F	12.7	A	3	N/A	N/A	N/A	Power Supply failure in Rod Control System. Cause under investigation.

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or 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-Automatic Scram.
4-Other (Explain)

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
Exhibit I - Same Source

(9/77)

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OPERATING DATA REPORT

DOCKET NO. 50-304
DATE 4-7-79
COMPLETED BY J. Jeffers
TELEPHONE 312-746-2084 Ext. 363

OPERATING STATUS

1. Unit Name: Zion Unit 2
2. Reporting Period: 0001 790801 to 2400 790831
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	Since commercial operation 9-14-74 Cumulative
11. Hours In Reporting Period	744	5,831	43,392
12. Number Of Hours Reactor Was Critical	728.9	4,753.8	32,330.9
13. Reactor Reserve Shutdown Hours	0	0	226.1
14. Hours Generator On-Line	723.7	4,646.9	31,576.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,073,012	12,038,941	89,349,111
17. Gross Electrical Energy Generated (MWH)	684,580	3,933,400	28,619,300
18. Net Electrical Energy Generated (MWH)	649,967	3,719,089	27,160,551
19. Unit Service Factor	97.3	80.0	73.0
20. Unit Availability Factor	97.3	80.0	73.0
21. Unit Capacity Factor (Using MDC Net)	84.0	61.3	60.2
22. Unit Capacity Factor (Using DER Net)	94.0	61.3	60.2
23. Unit Forced Outage Rate	2.7	4.7	14.5

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling March 9, 1980 7-8 weeks

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	N/A	
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-304
UNIT Zion Unit 2
DATE 9-7-79
COMPLETED BY J. Jeffers
TELEPHONE 312-746-2084
Ex 7.363

MONTH August, 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	927	17	834
2	930	18	84
3	906	19	897
4	928	20	897
5	932	21	889
6	944	22	889
7	929	23	897
8	943	24	901
9	882	25	846
10	924	26	894
11	931	27	884
12	927	28	774
13	926	29	884
14	881	30	879
15	921	31	893
16	910		

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.

(9/77)

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August, 1979

DOCKET NO. 50-304
UNIT NAME Zion Unit 2
DATE 9-7-79
COMPLETED BY T. Jeffers
TELEPHONE 312-746-2084
EXT. 363

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
10	790817	F	16.8	H	3	N/A	N/A	N/A	Reactor Trip caused by severe Lightening
11	790818	F	3.6	H	3	N/A	N/A	N/A	Reactor trip due to feedwater flow control and steam generator level problem during a routine reactor start-up

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or 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-Automatic Scram.
4-Other (Explain)

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
Exhibit I - Same Source

(9/77)

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

The unit entered the reporting period at a power level of 1050 MWe (100% reactor power). The unit tripped on August 17 at 2157 hours during a lightning storm. The unit was made critical on August 18 at 2027 hours and was synchronized to the grid at 2216 hours. On August 26 at 0117, the unit was shut down to repair minor secondary steam leaks in the containment. The unit was made critical on August 27 at 0204 hours and was synchronized to the grid at 0523 hours. On August 31 at 1117 hours, the unit tripped due to a power supply failure in the Rod Control System. The cause for this failure is still under investigation. The unit ended the month in Hot Shutdown.

UNIT 2

The unit entered the reporting period at a power level of 960 MWe (89% reactor power). The unit tripped on August 17 at 2157 hours during a lightning storm. The unit was made critical on August 18 at 1130 hours and was synchronized to the grid at 1442 hours. At 1446 hours, the unit tripped due to a feedwater flow control and steam generator level problem during a routine reactor start up. Feedwater flow control problems are typical of reactor startups. The unit was made critical at 1617 hours and was synchronized to the grid at 1820 hours. The unit was on-line for the remainder of the month and the ended the reporting period at a power level of 930 MWe (87% reactor power).

AUGUST MAJOR SAFETY RELATED MAINTENANCE

Equipment Name	Work Done
SW Pipe Hangar	Removed hangars and installed stantions
R.C. Loop D. Flow	Replaced FC 434 relay
114 Instrument Inverter	Changed out transformer
Power Cabinet for Shutdown Bank D	Replaced phase control P.C. Card
Narrow Range Steam Generator Level Channels	Changed trip set point for Lo-Lo S/G level from 10% to 15%
2A Aux. Feedwater Pump	Installed new solenoid valve
2A Aux. Feedwater Pump	Removed bearing, inspected and scraped as required

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. October 6, 1979 is the scheduled date for the next refueling shutdown.

3. November 14, 1979 is the scheduled date for initial criticality following refueling.

4. The reload fuel design and core configuration has undergone On-Site and Off-Site Review. The results of this review have shown that there is no unreviewed safety questions associated with this reload and that no Technical Specification changes or license amendments are necessary.

5. If unreviewed safety questions had arisen from the review in 4 above, then July 13, 1979 would have been the scheduled date for submitting a Reload Safety Evaluation Report on Zion Unit 1, Cycle 5.

6. No important licensing considerations are anticipated with this refueling.

7. The number of fuel assemblies

   (a) in the core is 193, and
   (b) in the spent fuel storage pool, which have been discharged from Zion Unit 1, is 130.

8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 2) is 868 fuel assemblies. An increase in storage capacity to 2112 fuel assemblies is planned.

9. September, 1982 is the projected date of the last Zion Unit 1 refueling which can be discharged to the spent fuel pool assuming the present licensed capacity.

Unit 2 - Answers

1. Zion Unit 2

2. March 9, 1980 is the scheduled date for the next refueling shutdown.

3. April 16, 1980 is the scheduled date for initial criticality following refueling.

4. No Technical Specification changes or other license amendments are anticipated. The reload fuel design and core configuration for Cycle V has not undergone on-site and off-site review.

5. If unreviewed safety questions arise from the review in 4 above, then January 10, 1980 would be the scheduled date for submitting a Reload Safety Evaluation Report on Zion Unit 2 cycles.

6. No important licensing considerations are anticipated with this refueling.

7. The number of fuel assemblies

   (a) in the core is 193, and

   (b) in the spent fuel storage pool which have been discharged by Zion Unit 2 is 188.

8. The present licensed spent fuel pool storage capacity (shared with Zion Unit 1) is 868 fuel assemblies. An increase in storage capacity to 2112 fuel assemblies is planned.

9. March, 1982 is the projected date of the last Zion Unit 2 refueling, which can be discharged to the spent fuel pool assuming the present licensed capacity.