

November 13, 1992 ZAD-92-014

Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

Dear Sir:

Attached is the October 1992 Operating Status Seport.

T.P. Joyce / Station Manager Zion Station

TPJ/DFK/dfk

Enclosure

cc: Regualtory Assurance USNRC Document Control M. wallace A. B. Davis (NRC) J. Leider T. Rieck T. J. Kovach D. R. Eggett INPO. Div. of Eng. Health State of Illinois F. Yost B. Gallo H. Granjean NRC Inspector, Zion P. Graessle Operating Engrs. C. Patel - Fax Master File

170017 ZCLERK-5(1) 7211170235 921031 ADOCK 05000225 1 F2A

OPERATING DATA REPORT

DOCKET NO. 50-295

DATE 11/13/92

COMPLETED BY D. Kennedy

TELEPHONE (708) 746-2084

X3169

OPERATING STATUS

Maximum Dependable Capacity (Net MWe): If Changes Occur in Capacity Ratings (Report, Give Reasons: N/A	1040 L Items Number	3 Through 7) S	ince Last
Power Level To Which Restricted, If An Reasons For Restrictions, If Any:			
	This Month	Yr-to-Date	Cumulativ
Hours In Reporting Period	745.0	7,320.0	165,120.
Number Of Hours Reactor Was Critical	719.8	3,141.3	110,968.
Reactor Reserve Shutdown Hours Hours Generator On-Line	0.0	6.0	2,621
Hours Generator On-Line	692.7	2.847.9	107.492
Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH)	2 056 106	9 160 294	312 101 50
Gross Flactrical Energy Generated(MWH)	694 511	2 758 370	101 035 12
Net Electrical Energy Generated (MWH)_ Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net)_	662.519	2.632.023	96.045.79
Unit Service Factor	93.0	39.0	65
Unit Availability Factor	93.0	39.0	65
Unit Capacity Factor (Using MDC Net)	85.5	34.6	56.
Unit Capacity factor (Using DER Net)_	85.5	34.6	56.
Unit Forced Outage Rate	7.0	12.3	17.
Shutdowns Scheduled Over Next 6 Months	(Type, Date,	and Duration	of Each):

If Shut Down At End Of Report Period,	Estimated Dat	e of Startup:_	
If Shut Down At End Of Report Period, Units In Test Status (Prior to Commerc	Estimated Dat	e of Startup:_	

OPERATING DATA REPORT

DOCKET NO. 50-304
DATE 11/13/92
COMPLETED BY D. Kennedy
TELEPHONE (708) 746-2064
x3169

OPERATING STATUS

1. 2. 3. 4. 5. 6. 7. 8.	Unit Name: Zion Unit 2 Reporting Period: 0000 920901 to 2400 Licensed Thermal Power (MWt): 3250 Nameplate Rating (Gross MWe): 1085 Design Electrical Rating (Net MWe): 1 Maximum Dependable Capacity (Gross MWe Maximum Dependable Capacity (Net MWe): If Changes Occur in Capacity Ratings (Report, Give Reasons:	040): 1085 1040 Items Number	Notes 3 Through 7) S1	nce Last
	Power Level To Which Restricted, If An Reasons For Restrictions, If Any: N/			
		This Month	Yr-to-Date	Cumulative
12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	Hours In Reporting Period Number Of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months Z2R12 - Refueling 11/12/92 - 02/20	0.0 745.0 0.0 1.753.869 583.840 552.478 100.0 100.0 71.3 71.3 0.0 (Type, Date,	0.0 5,481,7 0.0 16,204,685 5,465,850 5,217,485 75.0 75.0 69.0 69.0	0.0 330,193,094 106,005,807 100,963,093 70.1 70.1 61.1 61.1 15.6
	If Shut Down At End Of Report Period, Units In Test Status (Prior to Commerc INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION			

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-295
UNIT NAME Zion Unit 1
DATE 11/13/92
COMPLETED BY D. Kennedy
TELEPHONE (708) 746-2084 x3169

REPORT MONTH October 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
	0	F	692.7	(de.	5				Limit to 96% due to Delta T fluctuation.

F: Forced Exhibit G - Instructions Reason: Method S: Scheduled A-Equipment Failure (Explain) for Preparation of Data 1-Manual B-Maintenance of Test 2-Manual Trip Entry Sheets for Licensee C-Refueling 3-Auto Trip Event Report (LER) file D-Regulatory Restriction 4-Continued (NUREG-0161) E-Operator Training & Licensee Examination 5-Reduced Load F-Administrative G-Operational Error (Explain) Exhibit 1 - Same Source H-Other (Explain)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.50-304
UNIT NAME Zion Unit 2
DATE 11/13/92
COMPLETED BY D. Kennedy
TELEPHONE (708) 746-2084 x3159

REPORT MONTH October 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
									On-line for the entire reporting period. Coasting Down for the Outage starting 11/12.

ibit G - Instructions Preparation of Data ry Sheets for Licensee at Report (LER) File REG-0161)
RE

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-295
UNIT Zion Unit 1
DATE 11/13/92
COMPLETED BY D. Kennedy
TELEPHONE (708) 746-2084
x3169

	MONTH_October 1992		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe Net)
1	-11	17	784
2	-11	18	783
3	193	19	779
4	441	20	783
5	707	21	783
6	675	22	785
7	746	23	785
8	748	24	785
9	742	25	818
10	762	26	784
11	763	27	782
12	763	28	782
13	764	29	775
14	764	30	782
15	783	31	768
16	786		

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 11/13/92
COMPLETED BY D. Kennedy
TELEPHONE (708) 746-2084
×3169

	ONTH October 1992		
DAY	VERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	666	17	566
2	657	18	559
3	662	19	554
4	660	20	543
5	650	21	537
6	641	22	534
7	638	23	526
8	628	24	527
9	618	25	542
10	614	26	505
11	608	27	505
12	600	28	498
13	592	29	492
14	585	30	486
15	578	31	480
16	573		

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.

October 1992

SUMMARY OF OPERATING EXPERIENCE

UNIT 1

Unit 1, began October in Mode 3. Unit went Rx Critical - Mode 2 on 10-02-92 at 10:15. On 10-03-92, 04:59 the unit went on-line. The unit concluded the reporting period normal power operation, with 11mit to 96% power 1064 MWe due to delta T fluctuation.

UNIT 2

Unit 2, began October at 938 MWe power level (85.0% reactor power), remained online through the entire reporting period and ended at 667 MWe (63.6% reactor power). Unit 2 con inued power operation under coastdown program in preparation for refusing outage starting on 11-12-92.

October 1992

MAJC SAFETY RELATED MAINTENANCE

Ew	22.4	Mr. Alexa	SC PI	40.11	\$45 m	600.6	
E 53	93 31	63353	160.51		19 a	7139	ъ.
35.76	36.31	\$6.753	286.2.1	AL.	-2/3/20	3,11226	

s. space a promote at the contract of

IA Htr. Dr.in Pp

1C FW Pump

(UNIT 1)

1A SI Pump

18 D/G

1B CD Pump

1A SW Pump

OB Fire Pump

1B FW Pump

OB IA Comp

OA CC Pump

#1 Pp Air Comp

Work Performed

Seal Work

005: 10/06/92

Repair Oil Leak on Lovejoy Control:

Repairs Completed

005: 10/07/92 - 10/19/92

Recirc. Flow Low (24 gpm): Recirc

Orifice Replaced

OOS: 10/09/92 - 10/11/92

Starting Air COmp Rel. Viv:

Replaced Rel. Vlv

OOS: 10/14/92 - 10/15/92

Repair Drain Valve: Drain Line

Repaired.

005: 10/15/92 - 10/18/92

Discharge Valve Repair: Valve

Repaired.

OOS: 10/18/92 - 10/23/92

Repair Drain Line: Drain Line

Repaired.

OOS: 10/18/92 - 10/22/92

Gov. Valve Positioner Repair: Gov

Valve Repaired.

OOS: 10/20/92 - 10/23/92

Instrumentation Surveillance:

Surveillance Completed.

OOS: 10/20/92 - 10/23/92

Breaker Inspection: Inspected -

Dusted.

OOS: 10/28/92 - 10/30/92

OOS for Tech Staff - Troaubleshoot:

00S: 10/30/92 -

October 1992

MAJOR SAFETY RELATED MAINTENANCE

Equipment Name

Work Performed

(UNIT 2)

2B Htr Drain Pp

Cooler/Seals Leak: (Equipment will

ay OOS Until outage. _JS: Continue - *

2C FW Pump

Seal Leak: (Equipment will stay OOS

Until outage.

OOS: Continue - *

28 CD Pump

Scheduled Lubrication PM: PM

Completed.

OOS: 10/01/92 - 10/02/92

2C CD Pump

Scheduled Lubrication PM: PM

Completed.

OOS: 10/06/92 - 10/06/92

2B Aux FW Pump

Scheduled Oil Sample for MM's: Sample Pulled-Oil Changed.

OOS: 10/07/92 - 10/07/92

2C Aux FW Pump

Scheduled Oil Sample for MM's: Sample Pulled-Oil Changed.

OOS: 10/09/92 - 10/09/92

2A AUX FW Pump

Adjust Trip Valve Spring: Adjustment Completed. OOS: 10/13/92 - 10/14/92

2A D/G

Jacket Water Leak: Leak Repaired. nos: 10/14/92 - 10/15/92

22 m ir Comp

MCC Bucket Replacement: Breaker

Tested.

OOS: 10/16/92 10/21/92

#2 Pp Air Comp

Cooler Inspection: Work Completed.

OOS: 10/27/92 - 10/30/92

2A AUX FW PD

Inoperable Due to 2MOV-MS006 Failure: MOV Repaired.

OOS:10/23/92 - 10/28/92

2A ('CDB Pump

OOS For Check Valve Replacement OOS: 10/30/92 - **

^{*} Wow Will Be Completed During The Refueling Outage.

^{**}Should Bc Complete 11/6/92. 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?

- Scheduled date(s) for submitting proposed licensing act on and supporting information.
- 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 cap; ity that has been requested or is planned, in number of fuel assembiles.
- 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
- 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 ZIC14 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 is scheduled to Shutdown November 12, 1992 for refueling.
- 3. Cycle 13 is scheduled to start up February 20, 1993.
- 4. Yes. Technical Specification changes will be required to include the Westinghouse VANTAGE fuel design being loaded for Z2Cl3, and effects of the vessel fluency reduction program beginning with Z2Cl3.

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

- License amendments for the Z2Cl3 reload were submitted in Summer 1991, and were approved July 26, 1992 Amendment 128.
- 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 193, and
 - b) in the spent fuel storage pool from Zion Unit 2 is 740.
- 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 aduresses one invalid failure of the 1B EDG. The criteria to determine valid tests and failures is in accordance with section C.2.e of Reg. Guide 1.108.

On October 15, 1992 the 1B EDG Starting Air Compressors were both discovered to be inoperable. Upon investigation it was discovered that the train A Starting Air Compressor was deadheaded, by a malfunctioning dryer tower selector valve, and the train B compressor was Out Of Service (OOS). The train B compressor had been taken OOS on 10/13/92 to install a Temporary Alteration to the dryer tower selector valve. The EDG was returned to service on October 16, 1992 following the successful completion of PT-11C. This failure was determined to be invalid per Reg. Guide 1.108 C.2.e.2.

As of October 30 the test frequency for 1B EDG remains at 31 days.