

# CATEGORY 1

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FACIL:50-305 Kewaunee Nuclear Power Plant, Wisconsin Public Service      05000305  
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SUBJECT: Monthly operating rept for Feb 1999 for Kewaunee Nuclear Power Plant.With 990309 ltr.

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TITLE: Monthly Operating Report (per Tech Specs)

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NRC-99-016

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(a subsidiary of WPS Resources Corporation)  
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March 9, 1999

10 CFR 50.36

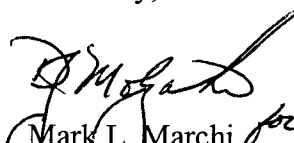
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Attention: Document Control Desk  
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Ladies/Gentlemen:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Monthly Operating Report \_\_\_\_\_

The narrative "Summary of Operating Experience" and completed forms covering plant and component availability for the Kewaunee Nuclear Power Plant for February 1999 are enclosed in accordance with Technical Specification 6.9.a.3.

Sincerely,

  
Mark L. Marchi  
Vice President-Nuclear

MLA

Enc.

cc - US NRC - Region III  
NRC Senior Resident Inspector  
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**KEWAUNEE NUCLEAR POWER PLANT - DOCKET 50-305  
SUMMARY OF OPERATING EXPERIENCE**

**February, 1999**

On February 10, FW-5A and FW-5B, FW Heater bypass valves, were opened full. As a result, the following significant parameter changes occurred:

Gross generation increased 9 Mwe (526.5 to 535.5 Mwe)  
Reactor Thermal Power increased 33 Mwt (1571 to 1604 Mwt)  
Feedwater temperature decreased 32°F (427 to 395°F)  
Adjusted Gross Heat Rate increased 30 Btu/kWhr (10260 to 10290 Btu/kWhr)

The unit continues to operate at 97% power, steady state operation.

**Instrument and Control Group Activities for the Month:**

- Corrected contact on Reactor Protection Relay during performance of monthly surveillance.
- Replaced injection switch on Steam Exclusion channel after channel failed.
- Repaired/Recalibrated three Foxboro H-Line boxes.

**Maintenance Group Activities for the Month:**

**Electrical Maintenance**

- Completed monthly safeguards battery surveillance.
- Tested bus 1 and 2 undervoltage/underfrequency relays.
- Replaced limit switches on valve SW3B for obsolescence.
- Replaced EQ splices on auxiliary building basement FCU with fully qualified splices.
- Completed several MOV rewires for DCR 2930 - Hot smart shorts.
- Adjusted packing on SW903B and completed MOV testing to address packing leakage.

**Mechanical Maintenance**

- Completed preventive maintenance and performance monitoring on various fan coil units.
- Completed vibration monitoring on numerous components including EDGs, AFW Pumps, area fan coil units, and containment fan coil units.
- Supported Diesel monthly testing including oil sampling. Adjusted packing on duplex fuel oil filter on the A EDG.
- Adjusted packing on various valves and a service water stainer.
- Tightened fasteners on several feedwater pipe hangers as identified by ISI and inspected/tested a snubber.
- Measured and slightly adjusted impeller position on the B control room AC unit chiller water pump to try to improve flow.

A V E R A G E   D A I L Y   U N I T   P O W E R   L E V E L

DOCKET NO- 50-305  
UNIT- KEWAUNEE  
COMPLETED BY- M. L. ANDERSON  
TELEPHONE- 920-388-8453

REPORT MONTH   FEBRUARY, 1999

DAY                      AVERAGE DAILY  
                            POWER LEVEL  
                            (MWE-NET)

1	504
2	500
3	500
4	500
5	504
6	504
7	500
8	500
9	500
10	504
11	512
12	508
13	512
14	508
15	512
16	509
17	512
18	512
19	508
20	512
21	508
22	512
23	508
24	512
25	508
26	512
27	508
28	513

DOCKET NO: 50-305  
 UNIT NAME: Kewaunee  
 DATE: March 8, 1999  
 COMP BY: Mary L. Anderson  
 TELEPHONE: 920-388-8453

UNIT SHUTDOWNS AND POWER REDUCTIONS  
 REPORT MONTH - FEBRUARY 1999

NO.	DATE	TYPE	DURATION	REASON	METHOD	LER NO.	SYS	COMPONENT	COMMENTS
									No shutdowns or power reductions in February

TYPE

F: FORCED  
 S: SCHEDULED

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)

METHOD

1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Continuations  
 5-Load Reductions  
 9-Other

SYSTEM & COMPONENT CODES

From NUREG-0161

O P E R A T I N G   D A T A   R E P O R T

DOCKET NO- 50-305  
 COMPLETED BY- M. L. ANDERSON  
 TELEPHONE- 920-388-8453

O P E R A T I N G   S T A T U S

1 UNIT NAME	KEWAUNEE	*****	
2 REPORTING PERIOD	FEBRUARY, 1999	* NOTES	
3 LICENSED THERMAL POWER (MWT)	1650	* 97% Rx Power, Steady State Operation	
4 NAMEPLATE RATING (GROSS MWE)	560	*	
5 DESIGN ELECTRICAL RATING (NET MWE)	535	*	
6 MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	537	*	
7 MAXIMUM DEPENDABLE CAPACITY (NET MWE)	511	*****	

8 IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS  
 None

9 POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE) None

10 REASONS FOR RESTRICTIONS, IF ANY

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11 HOURS IN REPORTING PERIOD	672	1416	216578
12 NUMBER OF HOURS REACTOR WAS CRITICAL	672.0	1416.0	182737.8
13 REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	2330.5
14 HOURS GENERATOR ON-LINE	672.0	1416.0	180662.4
15 UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	10.0
16 GROSS THERMAL ENERGY GENERATED (MWH)	1070798	2237536	285920266
17 GROSS ELECTRICAL ENERGY GENERATED (MWH)	357800	748300	94784700
18 NET ELECTRICAL ENERGY GENERATED (MWH)	340936	712727	90199910
19 UNIT SERVICE FACTOR	100.0	100.0	83.4
20 UNIT AVAILABILITY FACTOR	100.0	100.0	83.4
21 UNIT CAPACITY FACTOR (USING MDC NET)	99.3	98.5	81.3
22 UNIT CAPACITY FACTOR (USING DER NET)	94.8	94.1	77.8
23 UNIT FORCED OUTAGE RATE	0.0	0.0	1.8

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 - N/A