



NRC-99-088

**Wisconsin Public Service Corporation**  
(a subsidiary of WPS Resources Corporation)  
Kewaunee Nuclear Power Plant  
North 490, Highway 42  
Kewaunee, WI 54216-9511  
920-388-2560

December 9, 1999

10 CFR 50.36

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

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 November 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  
INPO Records Center  
PSCW - Sharon Hennings

JE24

PDR A000 05000305

**KEWAUNEE NUCLEAR POWER PLANT - DOCKET 50-305  
SUMMARY OF OPERATING EXPERIENCE**

November, 1999

The unit continues to operate at 97% reactor power, steady state operation, with a gross output of 532 MWe.

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

Supported I&C Engineering by monitoring the instrument electrical busses in preparation for the reactor protection system instrument replacement project.

Replaced yellow channel test point resistor, which was found drifted low during performance of normal monthly surveillance testing.

Supported engineering with modifications to the control room air conditioning system. Snubbers were added to the four stage switches to help with contact sticking problems.

Repaired/recalibrated four Foxboro H-Line control boxes.

**Maintenance Group Activities for the Month:**

**Electrical Maintenance**

Completed monthly safeguards battery surveillance.

Supported I&C on their monthly SP 316 reactor protection surveillance.

Tested Bus 1 and 2 UV and UF and Bus 5 and 6 UV relays.

Supported security computer replacement.

Performed maintenance on CC400A&B/MV32119 & 32120.

Performed maintenance on RHR400A/MV32125.

Performed breaker maintenance on auxiliary feedwater pump A breaker.

**Mechanical Maintenance**

Completed vibration monitoring on numerous components including auxiliary feedwater pumps, containment fan coils, containment dome fans, reactor coolant pumps, Zone SV exhaust fans and various safety related fan coil units. All were found to be operating acceptably.

Completed preventive maintenance lubrication on service water strainers and service water screens.

Repaired control room air conditioning unit "B".

Repaired auxiliary building fan coil unit "B".

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   NOVEMBER, 1999

DAY                      AVERAGE DAILY  
                            POWER LEVEL  
                            (MWE-NET)

1	507
2	507
3	507
4	511
5	507
6	507
7	507
8	507
9	511
10	507
11	507
12	507
13	511
14	507
15	507
16	511
17	507
18	507
19	507
20	511
21	507
22	507
23	507
24	507
25	507
26	511
27	507
28	507
29	511
30	507

**DOCKET NO:** 50-305  
**UNIT NAME:** Kewaunee  
**DATE:** December 9, 1999  
**COMP BY:** Mary L. Anderson  
**TELEPHONE:** 920-388-8453

**UNIT SHUTDOWNS AND POWER REDUCTIONS**  
**REPORT MONTH - NOVEMBER 1999**

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

**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**

OPERATING DATA REPORT

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

OPERATING STATUS

1 UNIT NAME	KEAUUNEE	*****	*****
2 REPORTING PERIOD	NOVEMBER, 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	720	8016	223178
12 NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	8016.0	189337.8
13 REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	2330.5
14 HOURS GENERATOR ON-LINE	720.0	8016.0	187262.4
15 UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	10.0
16 GROSS THERMAL ENERGY GENERATED (MWH)	1153786	12789835	296472565
17 GROSS ELECTRICAL ENERGY GENERATED (MWH)	384700	4255100	98291500
18 NET ELECTRICAL ENERGY GENERATED (MWH)	365685	4046946	93534129
19 UNIT SERVICE FACTOR	100.0	100.0	83.9
20 UNIT AVAILABILITY FACTOR	100.0	100.0	83.9
21 UNIT CAPACITY FACTOR (USING MDC NET)	99.4	98.8	81.8
22 UNIT CAPACITY FACTOR (USING DER NET)	94.9	94.4	78.3
23 UNIT FORCED OUTAGE RATE	0.0	0.0	1.8
24 SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS - Yes			
25 IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP - N/A			