

**Public Service**

**NRC-00-045**

**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

June 13, 2000

10 CFR 50.36

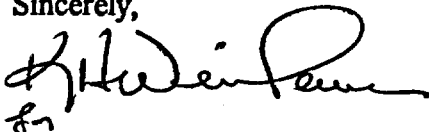
**U. S. Nuclear Regulatory Commission**  
**Attention: Document Control Desk**  
**Washington, D.C. 20555**

**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 May 2000 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 Henning**

IE24

NRR-063

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

**May 2000**

Unit continues to be shut down for the 2000 Refueling/Maintenance Outage. Estimated startup is June 2, 2000.

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

- Foxboro I/I on first stage pressure.
- EQ transmitter O-rings were replaced.
- Several Foxboro modules in relay room required the mounting holes be repaired due to stripped screw holes.
- Rack module TT402A was replaced.
- Replaced RC flow transmitter 412.
- Replaced power supply for SI flow transmitter.
- Replaced numerous SOV's due to EQ end of life, or failure.
- Returned the controller for LD-10.
- Installed new seal leak off flow transmitters per design change.
- Installed new flow meters for makeup system.
- Replaced the Swagelok fitting on pressurizer level sensor housing.
- Supported the installation of new heat exchangers on EDG's including thermowells and thermometers.

**Maintenance Group Activities for the Month:**

**Electrical Maintenance**

- Performed the 5-year battery load test surveillance procedure on both safeguards station batteries.
- Tested and calibrated all voltage restoring, load shedding and sequence loading relaying for both safeguards 4160V busses and emergency diesel generators.
- Performed diagnostic testing, routine preventative maintenance, and rebuilds on several safety related motor operated valves.
- Performed routine preventative maintenance and testing on several safety related 4160V, 480V and molded case circuit breakers.
- Performed routine preventative maintenance on several safety related motors.
- Replaced auxiliary feedwater pump motor 1B due to slightly elevated vibration.
- Performed routine preventative maintenance, cleaning and inspections on several safety related motor control centers and distribution cabinets.
- Performed surveillance and inspection on both emergency diesel generators.

### **Mechanical Maintenance**

- Inspected and rebuilt "B" reactor coolant pump mechanical seal.
- Replaced tube bundle on spent fuel pool heat exchanger.
- Performed 18-month inspection of A & B diesel generators, including replacement of both service water heat exchangers on both units.
- Rebuilt PR-1A & PR-1B to resolve body to bonnet and packing leakage issues.
- Performed 18-month inspection of hydraulic snubbers.
- CW-500 was removed, inspected, repaired, and installed. The associated 30-inch line was also cleaned.
- Performed check valve program inspection of many valves including two of the main feedwater check valves.
- Twenty-seven relief valves were tested.
- MS-1B was repacked, and changed actuator springs to resolve timing issue.
- Inspected and cleaned SW-901B-1, C-1 & D-1, to resolve intermediate indication issue.
- Rebuilt steam supply to turbine driven auxiliary feedwater pump, to correct minor seat leakage.
- Seal welded covers on SI-303A & SI-304B to eliminate present and future joint leakage.
- Resolved long standing, minor seat leakage issue on RHR-299A.

AVERAGE DAILY UNIT POWER LEVEL

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

REPORT MONTH MAY, 2000

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
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1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0

**DOCKET NO:** 50-305  
**UNIT NAME:** Kewaunee  
**DATE:** June 13, 2000  
**COMP BY:** Mary L. Anderson  
**TELEPHONE:** 920-388-8453

**UNIT SHUTDOWNS AND POWER REDUCTIONS**  
**REPORT MONTH - MAY 2000**

NO.	DATE	TYPE	DURATION	REASON	METHOD	LER NO.	SYS	COMPONENT	COMMENTS
1	05/01/00	S	744.0	C	4	N/A	ZZ	ZZZZZZ	Cycle XXIII-XXIV Refueling Outage continued throughout the entire reporting period

**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	KEWAUNEE	*****
2 REPORTING PERIOD	MAY, 2000	* NOTES
3 LICENSED THERMAL POWER (MWT)	1650	* Unit was shut down entire reporting
4 NAMEPLATE RATING (GROSS MWE)	560	* period
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	744	3647	227569
12 NUMBER OF HOURS REACTOR WAS CRITICAL	2.2	2689.3	192771.1
13 REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	2330.5
14 HOURS GENERATOR ON-LINE	0.0	2686.9	190693.2
15 UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	10.0
16 GROSS THERMAL ENERGY GENERATED (MWH)	0	4290284	301954178
17 GROSS ELECTRICAL ENERGY GENERATED (MWH)	0	1427600	100115600
18 NET ELECTRICAL ENERGY GENERATED (MWH)	0	1360574	95272420
19 UNIT SERVICE FACTOR	0.0	73.7	83.8
20 UNIT AVAILABILITY FACTOR	0.0	73.7	83.8
21 UNIT CAPACITY FACTOR (USING MDC NET)	0.0	73.0	81.7
22 UNIT CAPACITY FACTOR (USING DER NET)	0.0	69.7	78.3
23 UNIT FORCED OUTAGE RATE	0.0	0.0	1.7

24 SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH) - N/A

25 IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP - 06/02/2000