

# CATEGORY 1

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AUTH.NAME      AUTHOR AFFILIATION  
ANDERSON,M.L.      Wisconsin Public Service Corp.  
MARCHI,M.L.      Wisconsin Public Service Corp.  
RECIP.NAME      RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Apr 1999 for Kewaunee Nuclear  
Power Plant.With 990510 ltr.

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TITLE: Monthly Operating Report (per Tech Specs)

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**Wisconsin Public Service Corporation**

(a subsidiary of WPS Resources Corporation)

600 North Adams Street

P.O. Box 19002

Green Bay, WI 54307-9002

1-920-433-5544 fax

May 10, 1999

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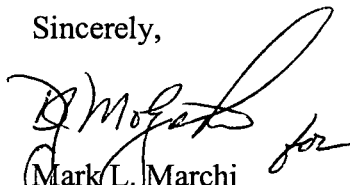
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Ladies/Gentlemen:

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

**April, 1999**

On April 10, 1999, at 2300, a scheduled backdown was initiated to perform SP-54-086, Turbine Stop Valve Test. Backdown was stopped at 0107, 384 MWe, 70.6% Rx Power. SP-54-086 was started at 0107 and successfully completed at 0155. A further backdown was started at 0201 to approximately 320 MWe, 60% Rx Power, for Main Feedwater Pump maintenance. Plant power increase was started at 0520, at 1/4%/min, with full power being reached on Sunday, April 11, 1999, at 1036.

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

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

Tested and repaired/replaced all rack test resistors used for the calibration of the Steam Exclusion Temp Loops.

Repaired/Calibrated both VCT Level Transmitters because of excessive indication differences between the loops. Repaired/Recalibrated three Foxboro H-Line Control Boxes.

**Maintenance Group Activities for the Month:**

**Electrical Maintenance**

Completed monthly safeguards battery surveillance.

Tested 4160V bus 1 and 2 UV and UF. Also tested 4160V bus 5 and 6 UV relays.

Completed megger testing on D containment fan coil unit and found it to be satisfactory.

Completed fan problem repairs on inverter BRB112. This cleared the trouble annunciator for the inverter.

Completed preventive maintenance activities on circuit breakers for containment fan coil units A and B.

**Mechanical Maintenance**

Completed vibration monitoring on numerous components including service water pumps and motors, the safety injection pumps and motors, reactor coolant pumps and motors, and containment fan coils and dome fans. All were found to be operating acceptably.

Completed performance monitoring on the containment fan coil units and found them to be satisfactory.

Supported diesel monthly testing including oil sampling.

Completed lubrication on the service water strainers.

Repaired chain operator on an ICS valve.

Completed a hot torque on RHR heat exchanger B to attempt to address minor flange leakage.

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      APRIL, 1999

| DAY | AVERAGE DAILY<br>POWER LEVEL<br>(MWE-NET) |
|-----|---|
|-----|---|

|    |     |
|----|-----|
| 1  | 508 |
| 2  | 508 |
| 3  | 508 |
| 4  | 489 |
| 5  | 512 |
| 6  | 509 |
| 7  | 508 |
| 8  | 508 |
| 9  | 512 |
| 10 | 508 |
| 11 | 447 |
| 12 | 512 |
| 13 | 508 |
| 14 | 508 |
| 15 | 513 |
| 16 | 508 |
| 17 | 508 |
| 18 | 508 |
| 19 | 508 |
| 20 | 513 |
| 21 | 508 |
| 22 | 508 |
| 23 | 508 |
| 24 | 512 |
| 25 | 508 |
| 26 | 508 |
| 27 | 509 |
| 28 | 508 |
| 29 | 509 |
| 30 | 508 |

DOCKET NO: 50-305  
 UNIT NAME: Kewaunee  
 DATE: May 10, 1999  
 COMP BY: Mary L. Anderson  
 TELEPHONE: 920-388-8453

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

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

**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                        | APRIL, 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        | 2880       | 218042     |
| 12 NUMBER OF HOURS REACTOR WAS CRITICAL    | 720.0      | 2880.0     | 184201.8   |
| 13 REACTOR RESERVE SHUTDOWN HOURS          | 0.0        | 0.0        | 2330.5     |
| 14 HOURS GENERATOR ON-LINE                 | 720.0      | 2880.0     | 182126.4   |
| 15 UNIT RESERVE SHUTDOWN HOURS             | 0.0        | 0.0        | 10.0       |
| 16 GROSS THERMAL ENERGY GENERATED (MWH)    | 1147356    | 4579111    | 288261841  |
| 17 GROSS ELECTRICAL ENERGY GENERATED (MWH) | 382600     | 1529200    | 95565600   |
| 18 NET ELECTRICAL ENERGY GENERATED (MWH)   | 364641     | 1457011    | 90944194   |
| 19 UNIT SERVICE FACTOR                     | 100.0      | 100.0      | 83.5       |
| 20 UNIT AVAILABILITY FACTOR                | 100.0      | 100.0      | 83.5       |
| 21 UNIT CAPACITY FACTOR (USING MDC NET)    | 99.1       | 99.0       | 81.4       |
| 22 UNIT CAPACITY FACTOR (USING DER NET)    | 94.7       | 94.6       | 78.0       |
| 23 UNIT FORCED OUTAGE RATE                 | 0.0        | 0.0        | 1.8        |

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 - N/A