

KEWAUNEE NUCLEAR POWER PLANT  
SUMMARY OF OPERATING EXPERIENCE

September, 1980

OPERATIONS: On September 1, the unit was returned to full load after a power defect measurement.

On September 20, the unit load was decreased for the mothly turbine stop valve test and for condenser water box checking.

On September 26, the unit was removed from service and taken to cold shutdown when RCS bypass flow was lost because of a valve disc/stem separation.

On September 30, the unit was at normal operating temperature and pressure in preparation for returning the unit to service.

MAINTENANCE: Replaced a bistable for the Lo-Lo level setpoint on a boric acid tank.

Repaired and calibrated boric acid heat tracing contrcllers.

Replaced a boric acid tank heater.

Replaced a control transformer and wiring which had shorted out for a control room A/C compressor.

Replaced a component cooling pump control switch.

Rewired W-2 switches per NRC Bulletin No. 80-20.

Replaced two valves in a RTD loop.

Replaced a Bus 1-2 undervoltage detection relay.

Replaced a 4160 Volt breaker charging motor.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-305  
 UNIT NAME: Kewaunee  
 DATE: October 1, 1980  
 COMPLETED BY: G. H. Ruiter  
 TELEPHONE: 414-388-2560 x225

REPORT MONTH - SEPTEMBER, 1980

| NO. | DATE    | TYPE | DURATION | REASON | METHOD | LER NUMBER | SYS | COMPONENT | COMMENTS  |
|-----|---------|------|----------|--------|--------|------------|-----|-----------|---|
| 8   | 9/20/80 | S    | 0.0      | B      | 5      | N/A        | HF  | HTEXCH    | 8. A load reduction to 45% power was taken over the weekend to permit inspection of the Main Condenser water boxes.   |
| 9   | 9/26/80 | P    | 118.1    | A      | 1      | 80-032     | CB  | VALVEX    | 9. A disc/stem separation in a Loop B RTD by-pass loop isolation valve caused loss of flow in the RTD line. The unit was taken to cold shutdown to permit replacement of the failed valve. The outage was extended when another Loop B RTD by-pass loop isolation valve failed in the same manner after it was operated to isolate the by-pass loop during maintenance. This valve was also replaced. |

|                           |  |  |                                     |
|---------------------------|--|--|-------------------------------------|
| <b>TYPE</b>               | <b>REASON</b>  | <b>METHOD</b>  | <b>SYSTEM &amp; COMPONENT CODES</b> |
| P: Forced<br>S: Scheduled | A-Equipment Failure (Explain)<br>B-Maintenance or Test<br>C-Refueling<br>D-Regulatory Restriction<br>E-Operator Training & License Examination<br>F-Administrative<br>G-Operational Error (Explain)<br>H-Other (Explain) | 1-Manual<br>2-Manual Scram<br>3-Automatic Scram<br>4-Continuations<br>5-Load Reductions<br>9-Other | From NUREG-0161                     |

OPERATING DATA REPORT

DOCKET NO- 50-305  
 COMPLETED BY- G. H. BUITER  
 TELEPHONE- 414-388-2560 X225

OPERATING STATUS

1 UNIT NAME KEWAUNEE \*\*\*\*\*  
 \*  
 2 REPORTING PERIOD SEPTEMBER, 1980 \* NOTES During this report period, a \*  
 \* weekend load reduction for Main \*  
 3 LICENSED THERMAL POWER (MWT) 1650 \* Condenser waterbox inspection and a unit \*  
 \* shutdown for replacement of RTD by-pass \*  
 4 NAMEPLATE RATING (GROSS MWE) 560 \* loop isolation valves were required. \*  
 \*  
 5 DESIGN ELECTRICAL RATING (NET MWE) 535 \*  
 \*  
 6 MAXIMUM DEPENDABLE CAPACITY (GROSS MWE) 545 \*  
 \*  
 7 MAXIMUM DEPENDABLE CAPACITY (NET MWE) 518 \*\*\*\*\*

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        | 6575       | 55176      |
| 12 NUMBER OF HOURS REACTOR WAS CRITICAL    | 602.2      | 5122.9     | 46125.3    |
| 13 REACTOR RESERVE SHUTDOWN HOURS          | 0.0        | 152.7      | 2330.5     |
| 14 HOURS GENERATOR ON-LINE                 | 601.9      | 5029.4     | 45025.3    |
| 15 UNIT RESERVE SUTDOWN HOURS              | 0.0        | 0.0        | 10.0       |
| 16 GROSS THERMAL ENERGY GENERATED (MWH)    | 946334     | 7982581    | 69133704   |
| 17 GROSS ELECTRICAL ENERGY GENERATED (MWH) | 310200     | 2639000    | 22822800   |
| 18 NET ELECTRICAL ENERGY GENERATED (MWH)   | 295198     | 2514923    | 21714001   |
| 19 UNIT SERVICE FACTOR                     | 83.6       | 76.5       | 81.6       |
| 20 UNIT AVAILABILITY FACTOR                | 83.6       | 76.5       | 81.6       |
| 21 UNIT CAPACITY FACTOR (USING HDC NET)    | 79.2       | 73.1       | 75.1       |
| 22 UNIT CAPACITY FACTOR (USING DER NET)    | 76.6       | 71.5       | 73.6       |
| 23 UNIT FORCED OUTAGE RATE                 | 16.4       | 8.2        | 5.7        |

24 SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)  
 None

25 IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP - October 1, 1980

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO- 50-305  
 UNIT- KEWAUNEE  
 COMPLETED BY- G. H. RUITER  
 TELEPHONE- 414-388-2560 X225

REPORT MONTH SEPTEMBER, 1980

| DAY | AVERAGE DAILY<br>POWER LEVEL<br>(MWE-NET) |
|-----|---|
| 1   | 454                                       |
| 2   | 503                                       |
| 3   | 516                                       |
| 4   | 516                                       |
| 5   | 516                                       |
| 6   | 520                                       |
| 7   | 521                                       |
| 8   | 521                                       |
| 9   | 517                                       |
| 10  | 525                                       |
| 11  | 517                                       |
| 12  | 517                                       |
| 13  | 521                                       |
| 14  | 521                                       |
| 15  | 508                                       |
| 16  | 516                                       |
| 17  | 516                                       |
| 18  | 516                                       |
| 19  | 517                                       |
| 20  | 218                                       |
| 21  | 267                                       |
| 22  | 521                                       |
| 23  | 520                                       |
| 24  | 520                                       |
| 25  | 491                                       |
| 26  | 6   |
| 27  | 0   |
| 28  | 0   |
| 29  | 0   |
| 30  | 0   |