



Wisconsin  
Electric  
POWER COMPANY

Point Beach Nuclear Plant  
6610 Nuclear Rd., Two Rivers, WI 54241

(414) 755-2321

PBL 94-0140

May 4, 1994

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U. S. NUCLEAR REGULATORY COMMISSION  
Mail Station P1-137  
Washington, DC 20555

Gentlemen:

DOCKETS 50-266 AND 50-301  
MONTHLY OPERATING REPORTS  
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

Attached are monthly operating reports for Units 1 and 2 of the Point Beach Nuclear Plant for the calendar month of April, 1994.

Sincerely,

G. J. Maxfield  
PBNP Manager

GJM/rll

Attachments

cc: L. L. Smith, PSCW  
NRC Regional Administrator, Region III  
NRC Resident Inspector

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# OPERATING DATA REPORT

DOCKET NO. 50-266

DATE: 05/02/94

COMPLETED BY: Richard F. Arnold

TELEPHONE: (414) 755-6193

## OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 1
2. REPORTING PERIOD: April - 1994
3. LICENSED THERMAL POWER (MWT): 1518.5
4. NAMEPLATE RATING (GROSS MWE): 523.8
5. DESIGN ELECTRICAL RATING (NET MWE): 497.0
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 509.0
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 485.0
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:  
NA
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE): NA
10. REASONS FOR RESTRICTIONS, (IF ANY):  
NA

	THIS MONTH	YEAR TO DATE	CUMULATIVE
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11. HOURS IN REPORTING PERIOD	719.0	2,879.0	205,847.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	93.6	2,253.6	170,972.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	667.3
14. HOURS GENERATOR ON LINE	49.7	2,205.1	167,845.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	846.9
16. GROSS THERMAL ENERGY GENERATED (MWH)	42,165	3,260,009	236,741,779
17. GROSS ELECTRICAL ENERGY GENERATED	12,570	1,102,090	79,956,220
18. NET ELECTRICAL ENERGY GENERATED (MWH)	8,330	1,052,854	76,208,444
19. UNIT SERVICE FACTOR	6.9%	76.6%	81.5%
20. UNIT AVAILABILITY FACTOR	6.9%	76.6%	82.0%
21. UNIT CAPACITY FACTOR (USING MDC NET)	2.4%	75.4%	76.0%
22. UNIT CAPACITY FACTOR (USING DER NET)	2.3%	73.6%	74.5%
23. UNIT FORCED OUTAGE RATE	0.0%	0.0%	1.6%
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): NONE			
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: NA			

DATA REPORTED AND FACTORS CALCULATED AS REQUESTED IN NRC LETTER DATED SEPTEMBER 22, 1977

# OPERATING DATA REPORT

DOCKET NO. 50-301

DATE: 05/02/94

COMPLETED BY: Richard F. Arnold

TELEPHONE: (414) 755-6193

## OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 2
2. REPORTING PERIOD: April - 1994
3. LICENSED THERMAL POWER (MWT): 1518.5
4. NAMEPLATE RATING (GROSS MWE): 523.8
5. DESIGN ELECTRICAL RATING (NET MWE): 497.0
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 509.0
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 485.0
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:  
NA
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE): NA
10. REASONS FOR RESTRICTIONS, (IF ANY):  
NA

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	719.0	2,879.0	190,632.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	719.0	2,879.0	167,079.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	233.9
14. HOURS GENERATOR ON LINE	719.0	2,879.0	164,745.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	302.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,082,174	4,303,795	236,674,979
17. GROSS ELECTRICAL ENERGY GENERATED	363,320	1,465,780	80,490,040
18. NET ELECTRICAL ENERGY GENERATED (MWH)	347,330	1,403,401	76,734,041
19. UNIT SERVICE FACTOR	100.0%	100.0%	86.4%
20. UNIT AVAILABILITY FACTOR	100.0%	100.0%	86.6%
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.6%	100.5%	82.4%
22. UNIT CAPACITY FACTOR (USING DER NET)	97.2%	98.1%	81.0%
23. UNIT FORCED OUTAGE RATE	0.0%	0.0%	1.0%

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):  
Refueling Outage, 09/24/94, 36 days
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:  
NA

DATA REPORTED AND FACTORS CALCULATED AS REQUESTED IN NRC LETTER DATED SEPTEMBER 22, 1977

## POINT BEACH NUCLEAR PLANT

AVERAGE DAILY UNIT POWER LEVELMONTH APRIL - 1994DOCKET NO. 50-301UNIT NAME Point Beach, Unit 2DATE May 2, 1994COMPLETED BY R. F. ArnoldTELEPHONE 414/755-6193

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL MWe NET</u>	<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL MWe NET</u>	<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL MWe NET</u>
1	<u>483</u>	11	<u>483</u>	21	<u>484</u>
2	<u>482</u>	12	<u>483</u>	22	<u>484</u>
3	<u>483</u>	13	<u>483</u>	23	<u>484</u>
4	<u>480</u>	14	<u>485</u>	24	<u>483</u>
5	<u>479</u>	15	<u>482</u>	25	<u>483</u>
6	<u>488</u>	16	<u>485</u>	26	<u>484</u>
7	<u>479</u>	17	<u>483</u>	27	<u>484</u>
8	<u>484</u>	18	<u>484</u>	28	<u>484</u>
9	<u>483</u>	19	<u>483</u>	29	<u>484</u>
10	<u>481</u>	20	<u>482</u>	30	<u>483</u>

POINT BEACH NUCLEAR PLANT  
UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH APRIL - 1994

Docket No. 50-301  
Unit Name Point Beach, Unit 2  
Date May 2, 1994  
Completed By R. F. Arnold  
Telephone No. 414/755-6193

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action To Prevent Recurrence
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

<sup>1</sup>F: Forced  
S: Scheduled

<sup>2</sup>Reason:  
A - Equipment Failure (explain)  
B - Maintenance or Testing  
C - Refueling  
D - Regulatory Restriction  
E - Operator Training &  
Licensing Exam  
F - Administrative  
G - Operational Error (explain)  
H - Other (explain)

<sup>3</sup>Method:  
1 - Manual  
2 - Manual Scram  
3 - Automatic Scram  
4 - Continuation of  
Previous Shutdown  
5 - Reduced Load  
6 - Other (explain)

<sup>4</sup>Exhibit G - Instructions  
for preparation of  
data entry sheets  
LER file (NUREG-0161)

<sup>5</sup>Exhibit I - Same Source

DOCKET NO. 50-301  
UNIT NAME Point Beach Unit 2  
DATE May 2, 1994  
COMPLETED BY R. F. Arnold  
TELEPHONE 414/755-6193

Unit 2 operated at an average of 483 MWe net for the report period with no significant load reductions.

Licensee Event Report 50-301/94-001-00, Potential Feedwater Flow Measurement Inaccuracies, was submitted.

Safety-related maintenance included:

1. Oil changed on residual heat removal pumps P-10A and P-10B.

## POINT BEACH NUCLEAR PLANT

AVERAGE DAILY UNIT POWER LEVELMONTH APRIL - 1994DOCKET NO. 50-266UNIT NAME Point Beach, Unit 1DATE May 2, 1994COMPLETED BY R. F. ArnoldTELEPHONE 414/755-6193

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL MWe NET</u>	<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL MWe NET</u>	<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL MWe NET</u>
1	<u>410</u>	11	<u>-2</u>	21	<u>-2</u>
2	<u>-4</u>	12	<u>-2</u>	22	<u>-2</u>
3	<u>-14</u>	13	<u>-2</u>	23	<u>-3</u>
4	<u>-7</u>	14	<u>-2</u>	24	<u>-7</u>
5	<u>-1</u>	15	<u>0</u>	25	<u>-12</u>
6	<u>-2</u>	16	<u>-4</u>	26	<u>-12</u>
7	<u>-2</u>	17	<u>-2</u>	27	<u>-12</u>
8	<u>-2</u>	18	<u>-2</u>	28	<u>-13</u>
9	<u>-2</u>	19	<u>-2</u>	29	<u>-14</u>
10	<u>-2</u>	20	<u>-2</u>	30	<u>67</u>

## POINT BEACH NUCLEAR PLANT

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH APRIL - 1994

Docket No. 50-266  
 Unit Name Point Beach, Unit 1  
 Date May 2, 1994  
 Completed By R. F. Arnold  
 Telephone No. 414/755-6193

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action To Prevent Recurrence
2	4/02/94	S	669.3	C	1	NA	NA	NA	Scheduled refueling and maintenance outage (U1R21). Major work items include reactor vessel head inspection, "A" steam generator loose parts inspection, steam generator sludge lancing, cavity cooler cleaning, removal of the circuits for the LO-LO boric acid storage tank level safety injection auto transfer to the refueling water storage tank, replacement of safeguards sequence timing relays, adjust time delays on degraded grid voltage relays, modified safety injection supports as part of continued Bulletin 79-14 upgrades, resurface turbine governor valve seats, replace thirty-two safety-related molded case circuit breakers, four rotor limit switches installed on thirteen valve motor operators, as-built electrical walkdowns of 4160 VAC and 480 VAC switch gear, and as-built electrical tracing of reactor protection and safeguards system.

<sup>1</sup>F: Forced  
 S: Scheduled

<sup>2</sup>Reason:  
 A - Equipment Failure (explain)  
 B - Maintenance or Testing  
 C - Refueling  
 D - Regulatory Restriction  
 E - Operator Training & Licensing Exam  
 F - Administrative  
 G - Operational Error (explain)  
 H - Other (explain)

<sup>3</sup>Method:  
 1 - Manual  
 2 - Manual Scram  
 3 - Automatic Scram  
 4 - Continuation of Previous Shutdown  
 5 - Reduced Load  
 6 - Other (explain)

<sup>4</sup>Exhibit G - Instructions for preparation of data entry sheets LER file (NUREG-0161)

<sup>5</sup>Exhibit I - Same Source



DOCKET NO. 50-266  
UNIT NAME Point Beach Unit 1  
DATE May 2, 1994  
COMPLETED BY R. F. Arnold  
TELEPHONE 414/755-6193

Unit 1 operated at an average of 11 MWe net for the report period. The Unit was shutdown for refueling and maintenance outage on April 2, 1994 and was placed back on line on April 30, 1994.

Safety-related maintenance included:

1. The supply and return lines for the cavity coolers were chemically cleaned.
2. Installed new fire breaks on eleven tray/floor electrical penetrations.
3. Replaced "A" and "B" reactor coolant pump seal water return low range flow transmitters.
4. Replaced main feedwater check valves CS-00466AA and CS-00476AA.
5. Replaced gasket on reactor coolant system pressurizer manway.
6. Repaired leakage on cavity cooling fan motor cooler HX-030B4.
7. Replaced reactor coolant system hot leg sample isolation valve (SC-00955) regulator.
8. Loose torque switch setting screws were tightened after the motor for the operator of safety injection pump P-15B suction valve operator tripped on thermal overload.
9. Replaced eight safety-related 125 VAC AC voltage rated breakers supplying DC loads with properly rated breakers.
10. Adjusted degraded grid voltage time delay relays on 4160 VAC buses A05 and A06.

11. Replaced Miller slide valve on purge supply fan discharge control valve VNPSE-03244.
12. Replaced the anti-rotation keys on valves SI-00878A, SI-00878B, SI-00878C, SI-00878D, RC-00596, and CC-00815.
13. Replaced auxiliary feedwater pump discharge relief valve SW-04389.
14. Replaced excess letdown heat exchanger (HX-4) shell side outlet relief valve CC-00768.
15. Flushed containment accident recirculation heat exchanger HX-015A3 because of 77% blockage in the return line.
16. Vibration detection accelerometers were installed on containment accident recirculation fans W-001A1, W-001B1, W-001C1 and W-001D1.
17. Replaced governor valve on turbine driven auxiliary feedwater pump P-29.
18. Replaced thirty-two molded case circuit breakers as part of the breaker upgrade program.
19. Replaced the upper operating arms on steam header main steam stop valves MS-02017 and MS-02018.
20. Replaced valve internals for refueling water storage tank to residual heat removal pump P-10A header suction valves SI-00854A and SI-00854B.
21. Installed four rotor limit switches on thirteen valve motor operators.
22. Replaced rotating assembly on residual heat removal pump P-10B.