



**Wisconsin  
Electric**  
POWER COMPANY

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

(414) 755-2321

PBL 94-0275

September 7, 1994

Document Control Desk  
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 August, 1994.

Sincerely,

G. J. Maxfield  
PBNP Manager

djs

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: 09/06/94

COMPLETED BY: M. B. Koudelka

TELEPHONE: 414 755-6480

## OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 1	NOTES		
2. REPORTING PERIOD: August - 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	744.0	5,831.0	208,799.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	5,205.6	173,924.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	667.3
14. HOURS GENERATOR ON LINE	744.0	5,157.1	170,797.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	846.9
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,129,344	7,652,631	241,134,401
17. GROSS ELECTRICAL ENERGY GENERATED	382,340	2,590,270	81,444,400
18. NET ELECTRICAL ENERGY GENERATED (MWH)	365,602	2,475,430	77,631,020
19. UNIT SERVICE FACTOR	100.0%	88.4%	81.8%
20. UNIT AVAILABILITY FACTOR	100.0%	88.4%	82.2%
21. UNIT CAPACITY FACTOR (USING MDC NET)	101.3%	87.5%	76.3%
22. UNIT CAPACITY FACTOR (USING DER NET)	98.9%	85.4%	74.8%
23. UNIT FORCED OUTAGE RATE	0.0%	0.0%	1.5%
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

DOCKET NO. 50-266  
UNIT NAME Point Beach Unit 1  
DATE September 6, 1994  
COMPLETED BY M. B. Koudelka  
TELEPHONE 414/755-6480

Unit 1 operated at an average of 491 MWe net for the report period.

Licensee Event Report 50-266/94-007-00, Breach of Containment Integrity During Valve Testing, was submitted.

Safety-related maintenance included:

1. Rewiring of remote green indicating light on CO2 electrical main control board in support of new EDG project.
2. C176 and C178 red and blue computer input mux recalibration.
3. C179 yellow computer input mux power supply replacement.
4. 1DY-04 yellow 125 Vdc/120 Vac 1Y204 inverter fan and fuse replacements.
5. 1FI-115 reactor coolant pump seal water injection flow indicator cleaned.
6. 1FI-4002 turbine-driven auxiliary feedwater pump transmitter fill and vent.
7. 1HYA-966 hydrogen monitor D/A chip replacement.
8. 1N46 power range comparator channel adjustments.
9. 1P29-T turbine-driven auxiliary feedwater pump trip button washer alignment.
10. SW-2890-0 north header to south header crossconnect operator 4-rotor limit switch and thermal overload wiring installation.
11. SW-2891-0 south header to north header crossconnect operator 4-rotor limit switch and thermal overload wiring installation.
12. Installation of 10 vent plugs in the reactor makeup water supply, sump, and reactor coolant drain tank systems.
13. Resetting of eight condensate storage tank level bistables.

## POINT BEACH NUCLEAR PLANT

AVERAGE DAILY UNIT POWER LEVELMONTH AUGUST - 1994

DOCKET NO.

50-266

UNIT NAME

Point Beach, Unit 1

DATE

September 7, 1994

COMPLETED BY

M. B. Koudeika

TELEPHONE

414-755-6480

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL MW<sub>e</sub> NET</u>	<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL MW<sub>e</sub> NET</u>	<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL MW<sub>e</sub> NET</u>
1	<u>488</u>	11	<u>492</u>	21	<u>489</u>
2	<u>493</u>	12	<u>489</u>	22	<u>491</u>
3	<u>495</u>	13	<u>491</u>	23	<u>488</u>
4	<u>494</u>	14	<u>490</u>	24	<u>492</u>
5	<u>494</u>	15	<u>490</u>	25	<u>491</u>
6	<u>493</u>	16	<u>490</u>	26	<u>491</u>
7	<u>486</u>	17	<u>492</u>	27	<u>492</u>
8	<u>492</u>	18	<u>492</u>	28	<u>493</u>
9	<u>490</u>	19	<u>493</u>	29	<u>493</u>
10	<u>489</u>	20	<u>493</u>	30	<u>495</u>
				31	<u>494</u>

## Point Beach Shift Operational Data Summary

August 1994

Day	Unit 1								Unit 2							
	Gen	X02	X04	X08	X27	Net MWe	Avg MWe		Gen	X02	X04	X08	X27	Net MWe	Avg MWe	
1	12360	601	35	1	5	11718	488		12280	507	33	1	5	11734	489	
2	12370	499	33	1	5	11833	493		12250	506	32	1	5	11707	488	
3	12420	498	34	1	5	11883	495		12440	506	32	1	5	11897	496	
4	12390	495	35	1	5	11855	494		12180	504	33	1	5	11638	485	
5	12380	496	33	1	5	11846	494		12280	507	31	1	5	11737	489	
6	12360	495	33	1	4	11828	493		12260	506	33	1	4	11717	488	
7	12190	496	32	1	4	11658	486		12230	506	34	1	4	11686	487	
8	12340	497	34	1	5	11803	492		12260	507	33	1	5	11714	488	
9	12300	496	34	1	4	11766	490		12230	508	36	1	4	11682	487	
10	12260	497	33	1	5	11725	489		12220	508	34	1	5	11673	486	
11	12340	497	33	1	5	11805	492		12200	507	43	1	5	11645	485	
12	12270	496	34	1	4	11735	489		12200	506	23	1	4	11666	486	
13	12310	494	36	1	5	11775	491		12210	504	32	1	5	11669	486	
14	12300	494	35	1	4	11767	490		12210	503	33	1	4	11670	486	
15	12300	496	35	1	5	11764	490		12220	505	34	1	5	11676	486	
16	12290	497	37	1	5	11751	490		12220	504	32	1	5	11679	487	
17	12350	497	36	1	5	11812	492		12280	504	28	1	5	11743	489	
18	12350	496	35	1	5	11814	492		12260	504	32	1	5	11719	488	
19	12370	498	46	1	5	11820	493		12290	505	35	1	5	11744	489	
20	12340	495	16	1	4	11825	493		12260	504	32	1	4	11720	488	
21	12260	493	33	1	4	11729	489		12180	503	34	1	4	11638	485	
22	12310	498	35	1	4	11773	491		12210	505	34	1	4	11667	486	
23	12250	496	37	1	5	11712	488		12170	505	12	1	5	11648	485	
24	12360	498	39	1	6	11817	492		12260	504	54	1	6	11696	487	
25	12310	496	37	1	5	11772	491		12260	504	31	1	5	11720	488	
26	12330	498	36	1	5	11790	491		12250	505	33	1	5	11706	488	
27	12360	499	37	1	4	11820	492		12250	504	31	1	4	11711	488	
28	12380	498	38	1	4	11839	493		12290	505	32	1	4	11748	490	
29	12380	498	38	1	4	11840	493		12280	504	32	1	4	11740	489	
30	12410	501	34	1	4	11871	495		12330	505	32	1	4	11789	491	
31	12400	501	30	1	5	11864	494		12310	506	38	1	5	11761	490	

## MONTHLY TOTALS - UNIT 1

Gross generation: 382340 MWhr  
 Total station service: 16738 MWhr  
 Net generation: 365602 MWhr  
 Average daily power: 491 MWe

## MONTHLY TOTALS - UNIT 2

Gross generation: 379770 MWhr  
 Total station service: 16838 MWhr  
 Net generation: 362932 MWhr  
 Average daily power: 488 MWe

# OPERATING DATA REPORT

DOCKET NO. 50-301

DATE: 09/06/94

COMPLETED BY: M. B. Koudelka

TELEPHONE: 414 755-6480

## OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 2 . NOTES
2. REPORTING PERIOD: August - 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	744.0	5,831.0	193,584.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	5,831.0	170,031.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	233.9
14. HOURS GENERATOR ON LINE	744.0	5,831.0	167,697.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	302.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,129,707	8,767,114	241,138,298
17. GROSS ELECTRICAL ENERGY GENERATED	379,770	2,967,160	81,991,420
18. NET ELECTRICAL ENERGY GENERATED (MWH)	362,932	2,837,877	78,168,517
19. UNIT SERVICE FACTOR	100.0%	100.0%	86.6%
20. UNIT AVAILABILITY FACTOR	100.0%	100.0%	86.8%
21. UNIT CAPACITY FACTOR (USING MDC NET)	100.6%	100.3%	82.7%
22. UNIT CAPACITY FACTOR (USING DER NET)	98.2%	97.9%	81.2%
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

DOCKET NO. 50-301  
UNIT NAME Point Beach Unit 2  
DATE September 6, 1994  
COMPLETED BY M. B. Koudelka  
TELEPHONE 414/755-6480

Unit 2 operated at an average of 488 MWe net for the report period with no significant load reductions.

Licensee Event Report 50-301/94-002-00, Quarterly Technical Specifications Test of PORV Block Valve Not Performed, was submitted.

Safety-related maintenance included:

1. 2FI-116 reactor coolant pump seal water injection flow indicator cleaning and fittings tightened.
2. 2FT-640 residual heat removal pump seal water heat exchanger shell side out flow transmitter low pressure isolation valve diaphragm replacement.
3. Installation of 11 vent plugs in the reactor makeup water supply, sump, and reactor coolant drain tank systems.
4. 2CV-283B charging pump discharge relief to T4 volume control tank valve replacement.
5. 2B52-29C power to K3B service air compressor amptector retrofit upgrade.

## POINT BEACH NUCLEAR PLANT

AVERAGE DAILY UNIT POWER LEVELMONTH AUGUST - 1994DOCKET NO. 50-301UNIT NAME Point Beach, Unit 2DATE September 7, 1994COMPLETED BY M. B. KoudelkaTELEPHONE 414-755-6480

<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>489</u>	11	<u>485</u>	21	<u>485</u>
2	<u>488</u>	12	<u>486</u>	22	<u>486</u>
3	<u>496</u>	13	<u>486</u>	23	<u>485</u>
4	<u>485</u>	14	<u>486</u>	24	<u>487</u>
5	<u>489</u>	15	<u>486</u>	25	<u>488</u>
6	<u>488</u>	16	<u>487</u>	26	<u>488</u>
7	<u>487</u>	17	<u>489</u>	27	<u>488</u>
8	<u>488</u>	18	<u>488</u>	28	<u>490</u>
9	<u>487</u>	19	<u>489</u>	29	<u>489</u>
10	<u>486</u>	20	<u>488</u>	30	<u>491</u>
				31	<u>490</u>



POINT BEACH NUCLEAR PLANT OPERATING SUMMARY REPORT  
UNIT 1 - AUGUST 1994

ELECTRICAL		MONTH	YEAR	TO DATE
GROSS GENERATION	MWH	382,340	2,590,270	81,444,400
TOTAL STATION SERVICE	MWH	16,738	114,840	3,813,380
NET OUTPUT	MWH	365,602	2,475,430	77,631,020
AVG. GROSS GENERATION FOR MONTH	MWH	513.9	444.2	390.1
AVG. GROSS GENERATION RUNNING	MWH	513.9	502.3	476.8
TOTAL STATION SEVICE/GROSS GEN.	%	4.4%	4.4%	4.7%
HOURS OF GENERATION	HRS	744.0	5,157.1	170,797.3

PLANT PERFORMANCE		MONTH	YEAR	TO DATE
NET PLANT EFFICIENCY	%	32.37%	32.35%	32.19%
NET PLANT HEAT RATE	BTU/KWH	10,542	10,550	10,601
NUMBER OF DAYS OF OPERATION	DAYS	31	929*	7,955
UNIT NET CAPACITY FACTOR	%	101.3%	87.5%	76.3%
UNIT SERVICE FACTOR	%	100.0%	88.4%	81.8%
SCHEDULED OUTAGES		0	2	117
FORCED OUTAGES		0	0	65
FORCED OUTAGE HOURS	HRS	0.0	0.0	2,678.1
UNIT FORCED OUTAGE RATE	%	0.0%	0.0%	1.5%

NUCLEAR		MONTH	YEAR	TO DATE
HOURS CRITICAL	HRS	744.0	5,205.6	173,924.5
TOTAL HOURS POSSIBLE	HRS	744.0	5,831.0	208,799.0
INADVERTANT REACTOR TRIPS		0	0	55
DURATION OF REACTOR DOWN TIME	HRS	0.0	625.4	34,958.5
REACTOR CAPACITY FACTOR	%	100.0%	86.4%	76.0%
REACTOR SERVICE FACTOR	%	100.0%	89.3%	83.3%
THERMAL POWER GENERATED	MWTHR	1,129,344	7,652,631	241,134,401

THERMAL POWER GENERATED THIS FUEL CYCLE    MWTHR    4,404,058

\*Incorrect number - problem is trying to resolved w/ computer programmer.

POINT BEACH NUCLEAR PLANT OPERATING SUMMARY REPORT  
UNIT 2 - AUGUST 1994

ELECTRICAL		MONTH	YEAR	TO DATE
GROSS GENERATION	MWH	379,770	2,967,160	81,991,420
TOTAL STATION SERVICE	MWH	16,838	129,283	3,822,903
NET OUTPUT	MWH	362,932	2,837,877	78,168,517
AVG. GROSS GENERATION FOR MONTH	MWH	510.4	508.9	423.5
AVG. GROSS GENERATION RUNNING	MWH	510.4	508.9	488.9
TOTAL STATION SERVICE/GROSS GEN.	%	4.4%	4.4%	4.7%
HOURS OF GENERATION	HRS	744.0	5,831.0	167,697.7

PLANT PERFORMANCE		MONTH	YEAR	TO DATE
NET PLANT EFFICIENCY	%	32.13%	32.37%	32.42%
NET PLANT HEAT RATE	BTU/KWH	10,623	10,543	10,528
NUMBER OF DAYS OF OPERATION	DAYS	31	243	7,082
UNIT NET CAPACITY FACTOR	%	100.6%	100.3%	83.3%
UNIT SERVICE FACTOR	%	100.0%	100.0%	86.6%
SCHEDULED OUTAGES		0	0	84
FORCED OUTAGES		0	0	51
FORCED OUTAGE HOURS	HRS	0.0	0.0	1,637.2
UNIT FORCED OUTAGE RATE	%	0.0%	0.0%	1.0%

NUCLEAR		MONTH	YEAR	TO DATE
HOURS CRITICAL	HRS	744.0	5,831.0	170,031.6
TOTAL HOURS POSSIBLE	HRS	744.0	5,831.0	193,584.0
INADVERTANT REACTOR TRIPS		0	0	44
DURATION OF REACTOR DOWN TIME	HRS	0.0	0.0	23,552.4
REACTOR CAPACITY FACTOR	%	100.0%	99.0%	82.1%
REACTOR SERVICE FACTOR	%	100.0%	100.0%	87.8%
THERMAL POWER GENERATED	MWTHR	1,129,707	8,767,114	241,138,298

THERMAL POWER GENERATED THIS FUEL CYCLE	MWTHR	10,937,951
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PBNP UNIT 1 CYCLE 22 AUGUST 1994 - BURNUP SYNOPSIS & REFUELING SCHEDULING DATA

BURNUP DATA IN MWD/MTU

	THIS PERIOD	TOTAL CYCLE 22	TOTAL
CYCLE AVERAGE	1085.	4230.	26158.
REGION AVERAGE			
113	1018.	4013.	41096.
120A	339.	1291.	46602.
120B	1080.	4280.	46391.
121A	347.	1314.	39050.
121B	493.	1863.	41446.
122A	1157.	4493.	32722.
122B	1237.	4858.	31781.
123A	1342.	5296.	21441.
123B	1443.	5739.	19372.
124A	1489.	5726.	5726.
124B	1361.	5269.	5269.
CORE MWTHR	1129344.	4404058.	27234167.
DAYS IN PERIOD/CYCLE	31	123	
POWER FACTOR	100.0%	98.3%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	10914.	10799.	* BASED ON DAYS REMAINING UNTIL REFUELING DATE ASSUMING PERIOD OR CYCLE POWER FACTOR

REFUELING SCHEDULE DATA

SCHEDULED REFUELING DATE 3/11/95

	DESIGN	TEN PPM	NOTE:
BURNUP FOR CYCLE 22 (MWD/MTU)	10320.	10200.	DESIGN BURNUP IS THE END OF CYCLE BURNUP THAT WAS
REMAINING EFFECTIVE FULL POWER DAYS	174.0	170.6	USED IN THE FINAL CORE DESIGN. TEN PPM BURNUP IS
FRACTION OF CYCLE LIFE EXPENDED	41.0%	41.5%	THE CORE AVERAGE BURNUP PROJECTED AT TEN PPM BORON
			BASED ON CURRENT BORON FOLLOW RESULTS.

ESTIMATED DATE FOR DESIGN AND TEN PPM BURNUPS ASSUMING VARIOUS POWER FACTORS

POWER FACTOR	100.%	95.%	90.%	85.%	80.%	75.%	70.%	65.%
TEN PPM BORON DATE	2/18/95	2/27/95	3/ 9/95	3/20/95	4/ 2/95	4/16/95	5/ 2/95	5/21/95
DESIGN BURNUP DATE	2/21/95	3/ 3/95	3/13/95	3/24/95	4/ 6/95	4/20/95	5/ 7/95	5/26/95

PBNP UNIT 2 CYCLE 20 AUGUST 1994 - BURNUP SYNOPSIS & REFUELING SCHEDULING DATA

BURNUP DATA IN MWD/MTU

	THIS PERIOD	TOTAL CYCLE 20	TOTAL
CYCLE AVERAGE	1086.	10519.	32385.
REGION AVERAGE			
218B	482.	4379.	45463.
219A	362.	3227.	43582.
219B	741.	6924.	47610.
220A	1151.	11204.	38480.
220B	1202.	11725.	39145.
221A	1373.	13577.	27756.
221B	1434.	14119.	26899.
222A	1400.	13599.	13599.
222B	1355.	13120.	13120.
CORE MWTHR	1129707.	10937951.	33674553.
DAYS IN PERIOD/CYCLE	31	305	
POWER FACTOR	100.0%	98.4%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	11325.	11312.	* BASED ON DAYS REMAINING UNTIL REFUELING DATE ASSUMING PERIOD OR CYCLE POWER FACTOR

----- REFUELING SCHEDULE DATA -----

SCHEDULED REFUELING DATE 9/24/94

	DESIGN	TEN PPM	NOTE:
BURNUP FOR CYCLE 20 (MWD/MTU)	10750.	10800.	DESIGN BURNUP IS THE END OF CYCLE BURNUP THAT WAS
REMAINING EFFECTIVE FULL POWER DAYS	6.6	8.0	USED IN THE FINAL CORE DESIGN. TEN PPM BURNUP IS
FRACTION OF CYCLE LIFE EXPENDED	97.9%	97.4%	THE CORE AVERAGE BURNUP PROJECTED AT TEN PPM BORON
			BASED ON CURRENT BORON FOLLOW RESULTS.

	ESTIMATED DATE FOR DESIGN AND TEN PPM BURNUPS ASSUMING VARIOUS POWER FACTORS							
POWER FACTOR	100.%	95.%	90.%	85.%	80.%	75.%	70.%	65.%
TEN PPM BORON DATE	9/ 9/94	9/ 9/94	9/ 9/94	9/10/94	9/11/94	9/11/94	9/12/94	9/13/94
DESIGN BURNUP DATE	9/ 7/94	9/ 7/94	9/ 8/94	9/ 8/94	9/ 9/94	9/ 9/94	9/10/94	9/11/94