



Kewaunee Nuclear Power Plant  
N490 Highway 42  
Kewaunee, WI 54216-9511  
920.388.2560

Point Beach Nuclear Plant  
6610 Nuclear Road  
Two Rivers, WI 54241  
920.755.2321

Kewaunee / Point Beach Nuclear  
Operated by Nuclear Management Company, LLC

NRC 2002-0021

GL 97-02

March 15, 2002

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

Ladies/Gentlemen:

Dockets 50-266 And 50-301  
Point Beach Nuclear Plant, Units 1 And 2  
Monthly Operating Reports

Attached are monthly operating reports for Units 1 and 2 of the Point Beach Nuclear Plant for the calendar month of February 2002.

Sincerely,

T. J. Webb  
Regulatory Affairs Manager

KMD

Attachment

cc: J. D. Loock, PSCW  
NRC Region III  
NRC Senior Resident Inspector  
NRC Project Manager

IE24

Docket 50-266 and 50-301  
NRC-2002-0021

ATTACHMENT 1

Letter from Thomas J. Webb (NMC)

To

Document Control Desk (NRC)

Dated

March 15, 2002

Re: Monthly Operating Report – February 2002

OPERATING DATA REPORT

DOCKET NO. 50-266

DATE: 03/01/02

COMPLETED BY: Kim M. Duescher

TELEPHONE: 920-755-6,862

OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 1
2. REPORTING PERIOD: February - 2002
3. LICENSED THERMAL POWER (MWT): 1,518.5
4. NAMEPLATING RATING (GROSS MWE): 537.7
5. DESIGN ELECTRICAL RATING (NET MWE): 515.0
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 530.0
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 510.0
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:

NOTES

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE):
10. REASONS FOR RESTRICTIONS, (IF ANY):

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	672.0	1,416.0	274,511.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	672.0	1,416.0	225,025.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	667.3
14. HOURS GENERATOR ONLINE	672.0	1,416.0	221,510.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	846.9
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,018,734.0	2,147,261.0	316,149,712.0
17. GROSS ELECTRICAL ENERGY GENERATED	353,810.0	746,020.0	107,288,120.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	339,233.0	715,299.5	102,290,819.5
19. UNIT SERVICE FACTOR	100.0%	100.0%	80.7%
20. UNIT AVAILABILITY FACTOR	100.0%	100.0%	81.0%
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.0%	99.1%	76.2%
22. UNIT CAPACITY FACTOR (USING DER NET)	98.0%	98.1%	74.7%
23. UNIT FORCED OUTAGE RATE	0.0%	0.0%	4.4%

DATA REPORTED AND FACTORS CALCULATED AS REQUESTED IN NRC LETTER DATED MAY 15, 1997

POINT BEACH NUCLEAR PLANT

**AVERAGE DAILY UNIT POWER LEVEL**

MONTH FEBRUARY - 2002

DOCKET NO. 50-266  
 UNIT NAME: Point Beach, Unit 1  
 DATE: 03/01/02  
 COMPLETED BY: Kim M. Duescher  
 TELEPHONE: 920-755-6862

<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>509</u>	11	<u>506</u>	21	<u>504</u>
2	<u>504</u>	12	<u>504</u>	22	<u>505</u>
3	<u>506</u>	13	<u>501</u>	23	<u>504</u>
4	<u>510</u>	14	<u>510</u>	24	<u>506</u>
5	<u>499</u>	15	<u>504</u>	25	<u>506</u>
6	<u>502</u>	16	<u>507</u>	26	<u>504</u>
7	<u>498</u>	17	<u>503</u>	27	<u>505</u>
8	<u>508</u>	18	<u>506</u>	28	<u>503</u>
9	<u>506</u>	19	<u>506</u>		
10	<u>503</u>	20	<u>506</u>		

OPERATING DATA REPORT

DOCKET NO. 50-301

DATE: 03/12/02

COMPLETED BY: Kim M. Locke

TELEPHONE: 920-755-6,420

OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 2
2. REPORTING PERIOD: February - 2002
3. LICENSED THERMAL POWER (MWT): 1,518.5
4. NAMEPLATING RATING (GROSS MWE): 537.7
5. DESIGN ELECTRICAL RATING (NET MWE): 515.0
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 532.0
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 512.0
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE):
10. REASONS FOR RESTRICTIONS, (IF ANY):

NOTES

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	672.0	1,416.0	259,296.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	611.3	1,355.3	219,136.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	233.9
14. HOURS GENERATOR ONLINE	600.3	1,344.3	216,198.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	302.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	858,085.0	1,986,742.0	312,035,159.0
17. GROSS ELECTRICAL ENERGY GENERATED	299,230.0	690,320.0	106,418,360.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	285,305.0	660,267.5	101,443,774.5
19. UNIT SERVICE FACTOR	89.3%	94.9%	83.4%
20. UNIT AVAILABILITY FACTOR	89.3%	94.9%	83.5%
21. UNIT CAPACITY FACTOR (USING MDC NET)	82.9%	91.1%	79.8%
22. UNIT CAPACITY FACTOR (USING DER NET)	82.4%	90.5%	78.4%
23. UNIT FORCED OUTAGE RATE	10.7%	5.1%	2.2%

POINT BEACH NUCLEAR PLANT

**AVERAGE DAILY UNIT POWER LEVEL**

MONTH FEBRUARY - 2002

DOCKET NO. 50-301  
 UNIT NAME: Point Beach, Unit 2  
 DATE: 03/01/02  
 COMPLETED BY: Kim M. Duescher  
 TELEPHONE: 920-755-6862

<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>494</u>	11	<u>513</u>	21	<u>511</u>
2	<u>210</u>	12	<u>512</u>	22	<u>366</u>
3	<u>215</u>	13	<u>509</u>	23	<u>0</u>
4	<u>496</u>	14	<u>512</u>	24	<u>0</u>
5	<u>508</u>	15	<u>511</u>	25	<u>3</u>
6	<u>511</u>	16	<u>515</u>	26	<u>413</u>
7	<u>512</u>	17	<u>510</u>	27	<u>511</u>
8	<u>512</u>	18	<u>513</u>	28	<u>510</u>
9	<u>514</u>	19	<u>514</u>		
10	<u>514</u>	20	<u>514</u>		

**APPENDIX B  
UNIT SHUTDOWNS**

DOCKET NO. 50-266  
 UNIT NAME: Point Beach, Unit 1  
 DATE: 03/01/02  
 COMPLETED BY: Kim M. Duescher  
 TELEPHONE: 755-6862

REPORTING PERIOD: February 2002  
 (Month/Year)

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS COMMENTS
N/A	N/A	N/A	N/A	N/A	N/A	

**(1) 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)

**(2) Method**

- 1 Manual
- 2 Manual Trip/Scram
- 3 Automatic Trip/Scram
- 4. Continuation
- 5. Other (Explain)

**SUMMARY:**

Unit 1 average daily power for the month of February was 504.81 MWe.  
 There were no Licensee Event Reports (LERs) submitted to the NRC.  
 There were no Significant Operating Events.

**APPENDIX B**  
**UNIT SHUTDOWNS**

DOCKET NO. 50-301  
 UNIT NAME: Point Beach, Unit 2  
 DATE: 03/01/02  
 COMPLETED BY: Kim M. Duescher  
 TELEPHONE: 755-6862

**REPORTING PERIOD: February 2002**  
 (Month/Year)

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS
						COMMENTS
1	02/01/02	SCHEDULED	0	B	5	Unit 2 power reduction from full power to 50% for condenser water box inspection and cleaning in accordance with OP-3A Unit 2 shutdown was required due to 2P-15B SI Pump not being returned to service within the required completion time of TSAC 3.5.2A.
2	02/22/02	FORCED	72	D	1	

**(1) 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)

**(2) Method**

- 1 Manual
- 2 Manual Trip/Scram
- 3 Automatic Trip/Scram
- 4 Continuation
- 5 Other (Explain)

**SUMMARY:**

Unit 2 average daily power for the month of February was 475.5 MWe.  
 There were no Licensee Event Reports (LERs) submitted to the NRC.  
 There were no Significant Operating Events.



POINT BEACH NUCLEAR PLANT OPERATING SUMMARY REPORT  
UNIT 2 - FEBRUARY 2002

<u>ELECTRICAL</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
GROSS GENERATION	MWH	299,230.0	690,320.0	106,418,360.0
TOTAL STATION SERVICE	MWH	13,925.0	30,052.5	4,974,585.5
NET OUTPUT	MWH	285,305.0	660,267.5	101,443,774.5
AVG. GROSS GENERATION FOR MONTH	MWH	445.3	487.5	410.4
AVG. GROSS GENERATION RUNNING	MWH	498.5	513.5	492.2
TOTAL STATION SERVICE/GROSS GEN.	%	4.7%	4.4%	4.7%
HOURS OF GENERATION	HRS	600.3	1,344.3	216,198.5

<u>PLANT PERFORMANCE</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
NET PLANT EFFICIENCY	%	33.25%	33.23%	32.51%
NET PLANT HEAT RATE	BTU/KWH	10,264.2	10,268.9	10,497.4
NUMBER OF DAYS OF OPERATION	DAYS	28	59	9,149
UNIT NET CAPACITY FACTOR	%	82.9%	91.1%	79.8%
UNIT SERVICE FACTOR	%	89.3%	94.9%	83.4%
SCHEDULED OUTAGES		0	0	92
FORCED OUTAGES		1	1	59
FORCED OUTAGE HOURS	HRS	71.7	71.7	4,901.0
UNIT FORCED OUTAGE RATE	%	10.7%	5.1%	2.2%

<u>NUCLEAR</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
HOURS CRITICAL	HRS	611.3	1,355.3	219,136.9
TOTAL HOURS POSSIBLE	HRS	672.0	1,416.0	259,296.0
INADVERTANT REACTOR TRIPS		0	0	50
DURATION OF REACTOR DOWN TIME	HRS	60.7	60.7	40,159.1
REACTOR CAPACITY FACTOR	%	84.1%	92.4%	79.3%
REACTOR SERVICE FACTOR	%	91.0%	95.7%	84.5%
THERMAL POWER GENERATED	MWTHR	858,085.0	1,986,742.0	312,035,159.0

THERMAL POWER GENERATED THIS FUEL CYCLE      MWTHR      15,348,266.0

POINT BEACH NUCLEAR PLANT OPERATING SUMMARY REPORT  
UNIT 1 - FEBRUARY 2002

<u>ELECTRICAL</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
GROSS GENERATION	MWH	353,810.0	746,020.0	107,288,120.0
TOTAL STATION SERVICE	MWH	14,577.0	30,720.5	4,997,300.5
NET OUTPUT	MWH	339,233.0	715,299.5	102,290,819.5
AVG. GROSS GENERATION FOR MONTH	MWH	526.5	526.9	390.8
AVG. GROSS GENERATION RUNNING	MWH	526.5	526.9	484.3
TOTAL STATION SERVICE/GROSS GEN.	%	4.1%	4.1%	4.7%
HOURS OF GENERATION	HRS	672.0	1,416.0	221,510.0

<u>PLANT PERFORMANCE</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
NET PLANT EFFICIENCY	%	33.30%	33.31%	32.36%
NET PLANT HEAT RATE	BTU/KWH	10,248.7	10,244.8	10,547.8
NUMBER OF DAYS OF OPERATION	DAYS	28	59	10,111
UNIT NET CAPACITY FACTOR	%	99.0%	99.1%	76.2%
UNIT SERVICE FACTOR	%	100.0%	100.0%	80.7%
SCHEDULED OUTAGES		0	0	126
FORCED OUTAGES		0	0	73
FORCED OUTAGE HOURS	HRS	0.0	0.0	10,227.1
UNIT FORCED OUTAGE RATE	%	0.0%	0.0%	4.4%

<u>NUCLEAR</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
HOURS CRITICAL	HRS	672.0	1,416.0	225,025.8
TOTAL HOURS POSSIBLE	HRS	672.0	1,416.0	274,511.0
INADVERTANT REACTOR TRIPS		0	0	57
DURATION OF REACTOR DOWN TIME	HRS	0.0	0.0	49,569.2
REACTOR CAPACITY FACTOR	%	99.8%	99.9%	75.8%
REACTOR SERVICE FACTOR	%	100.0%	100.0%	82.0%
THERMAL POWER GENERATED	MWTHR	1,018,734.0	2,147,261.0	316,149,712.0

THERMAL POWER GENERATED THIS FUEL CYCLE      MWTHR      1,018,734.0

POINT BEACH SHIFT OPERATIONAL DATA SUMMARY

February, 2002

DAY	Unit 1							Unit 2						
	Gen	X02	X04	X08	X27	Net MWhr	Avg MWe	Gen	X02	X04	X08	X27	Net MWhr	Avg MWe
1	12740.0	480.0	37.0	1.5	6.0	12215.5	509.0	12380.0	474.0	38.0	1.5	6.0	11860.5	494.2
2	12610.0	475.0	38.0	1.0	5.5	12090.5	503.8	5510.0	418.0	41.0	1.0	5.5	5044.5	210.2
3	12660.0	478.0	34.0	1.0	6.5	12140.5	505.9	5630.0	419.0	41.0	1.0	6.5	5162.5	215.1
4	12760.0	480.0	36.0	1.0	6.5	12236.5	509.9	12440.0	473.0	44.0	1.0	6.5	11915.5	496.5
5	12490.0	479.0	35.0	1.0	6.5	11968.5	498.7	12700.0	475.0	30.0	1.0	6.5	12187.5	507.8
6	12560.0	478.0	35.0	1.0	5.5	12040.5	501.7	12780.0	472.0	36.0	1.0	5.5	12265.5	511.1
7	12470.0	487.0	35.0	1.0	6.0	11941.0	497.5	12800.0	465.0	38.0	1.0	6.0	12290.0	512.1
8	12710.0	468.0	34.0	1.0	5.5	12201.5	508.4	12800.0	465.0	40.0	1.0	5.5	12288.5	512.0
9	12660.0	478.0	33.0	1.0	5.0	12143.0	506.0	12840.0	466.0	37.0	1.0	5.0	12331.0	513.8
10	12590.0	478.0	35.0	1.0	6.0	12070.0	502.9	12840.0	467.0	41.0	1.0	6.0	12325.0	513.5
11	12670.0	483.0	35.0	1.0	5.5	12145.5	506.1	12830.0	468.0	41.0	1.0	5.5	12314.5	513.1
12	12620.0	481.0	35.0	1.0	6.0	12097.0	504.0	12790.0	467.0	38.0	1.0	6.0	12278.0	511.6
13	12550.0	480.0	34.0	1.0	6.0	12029.0	501.2	12730.0	467.0	40.0	1.0	6.0	12216.0	509.0
14	12750.0	479.0	35.0	1.0	5.5	12229.5	509.6	12790.0	465.0	40.0	1.0	5.5	12278.5	511.6
15	12620.0	478.0	33.0	1.0	5.5	12102.5	504.3	12780.0	466.0	39.0	1.0	5.5	12268.5	511.2
16	12690.0	479.0	34.0	1.0	5.5	12170.5	507.1	12860.0	468.0	35.0	1.0	5.5	12350.5	514.6
17	12600.0	478.0	34.0	1.0	5.5	12081.5	503.4	12750.0	465.0	39.0	1.0	5.5	12239.5	510.0
18	12660.0	479.0	35.0	1.0	5.5	12139.5	505.8	12830.0	467.0	36.0	1.0	5.5	12320.5	513.4
19	12660.0	480.0	33.0	1.0	5.5	12140.5	505.9	12840.0	468.0	37.0	1.0	5.5	12328.5	513.7
20	12670.0	480.0	34.0	1.0	5.5	12149.5	506.2	12840.0	469.0	38.0	1.0	5.5	12326.5	513.6
21	12630.0	481.0	35.0	1.0	5.5	12107.5	504.5	12790.0	472.0	39.0	1.0	5.5	12272.5	511.4
22	12650.0	482.0	34.0	1.0	7.0	12126.0	505.2	9260.0	355.0	117.0	1.0	7.0	8780.0	365.8
23	12620.0	480.0	34.0	1.0	5.5	12099.5	504.1	0.0	0.0	402.0	1.0	5.5	-408.5	-17.0
24	12650.0	479.0	34.0	0.5	1.0	12135.5	505.6	0.0	0.0	399.0	0.5	1.0	-400.5	-16.7
25	12660.0	481.0	34.0	1.0	11.0	12133.0	505.5	450.0	53.0	320.0	1.0	11.0	65.0	2.7
26	12620.0	479.0	33.0	1.0	6.0	12101.0	504.2	10410.0	450.0	49.0	1.0	6.0	9904.0	412.7
27	12640.0	481.0	31.0	1.0	6.5	12120.5	505.0	12790.0	478.0	51.0	1.0	6.5	12253.5	510.6
28	12600.0	479.0	36.0	1.0	6.5	12077.5	503.2	12770.0	473.0	42.0	1.0	6.5	12247.5	510.3

MONTHLY TOTALS - UNIT 1

Gross Generation: 353,810.0 MWhr  
 Total Station Service: 14,577.0 MWhr  
 Net Generation: 339,233.0 MWhr  
 Average Daily Power: 504.8 MWe

MONTHLY TOTALS - UNIT 2

Gross Generation: 299,230.0 MWhr  
 Total Station Service: 13,925.0 MWhr  
 Net Generation: 285,305.0 MWhr  
 Average Daily Power: 424.6 MWe

Kim

PBNP UNIT 1 CYCLE 27 FEBRUARY 2002 - BURNUP SYNOPSIS & REFUELING SCHEDULING DATA

BURNUP DATA IN MWD/MTU

	THIS PERIOD	TOTAL CYCLE 27	TOTAL
CYCLE AVERAGE	960.	9281.	29719.
REGION AVERAGE			
126B	350.	3245.	39232.
127A	298.	2723.	44105.
127B	677.	6396.	46338.
128A	1129.	11084.	33001.
128B	1223.	12067.	31993.
129A	1299.	12375.	12375.
129B	1144.	11035.	11035.
CORE MWTHR	1018734.	9845042.	31525441.
DAYS IN PERIOD/CYCLE	28	291	
POWER FACTOR	99.9%	92.8%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	16044.	15564.	* BASED ON DAYS REMAINING UNTIL REFUELING DATE ASSUMING PERIOD OR CYCLE POWER FACTOR

REFUELING SCHEDULE DATA

SCHEDULED REFUELING DATE 9/14/2002

	DESIGN	TEN PPM	NOTE:
BURNUP FOR CYCLE 27 (MWD/MTU)	16285.	16200.	DESIGN BURNUP IS THE END OF CYCLE BURNUP THAT WAS USED IN THE FINAL CORE DESIGN. TEN PPM BURNUP IS
REMAINING EFFECTIVE FULL POWER DAYS	203.9	201.4	THE CORE AVERAGE BURNUP PROJECTED AT TEN PPM BORON
FRACTION OF CYCLE LIFE EXPENDED	57.0%	57.3%	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	9/18/2002	9/29/2002	10/10/2002	10/23/2002	11/ 7/2002	11/24/2002	12/13/2002	1/ 4/2003
DESIGN BURNUP DATE	9/20/2002	10/ 1/2002	10/13/2002	10/26/2002	11/10/2002	11/27/2002	12/17/2002	1/ 8/2003

PBNP UNIT 2 CYCLE 25 FEBRUARY 2002 - BURNUP SYNOPSIS & REFUELING SCHEDULING DATA

BURNUP DATA IN MWD/MTU

	THIS PERIOD	TOTAL CYCLE 25	TOTAL
CYCLE AVERAGE	804.	14373.	33528.
REGION AVERAGE			
223D	263.	4239.	47998.
224A	234.	3775.	39080.
225A	538.	9299.	38340.
225B	338.	5633.	43302.
226A	857.	15313.	43524.
226B	969.	17705.	41283.
227A	1032.	18510.	18510.
227B	902.	16257.	16257.
CORE MWTHR	858085.	15348266.	35804093.
DAYS IN PERIOD/CYCLE	28	439	
POWER FACTOR	84.1%	95.9%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	15607.	15780.	* BASED ON DAYS REMAINING UNTIL REFUELING DATE ASSUMING PERIOD OR CYCLE POWER FACTOR

REFUELING SCHEDULE DATA

SCHEDULED REFUELING DATE 4/13/2002

	DESIGN	TEN PPM	NOTE:
BURNUP FOR CYCLE 25 (MWD/MTU)	16660.	16660.	DESIGN BURNUP IS THE END OF CYCLE BURNUP THAT WAS USED IN THE FINAL CORE DESIGN. TEN PPM BURNUP IS
REMAINING EFFECTIVE FULL POWER DAYS	67.0	67.0	THE CORE AVERAGE BURNUP PROJECTED AT TEN PPM BORON
FRACTION OF CYCLE LIFE EXPENDED	86.3%	86.3%	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	5/ 7/2002	5/10/2002	5/14/2002	5/18/2002	5/23/2002	5/29/2002	6/ 4/2002	6/12/2002
DESIGN BURNUP DATE	5/ 7/2002	5/10/2002	5/14/2002	5/18/2002	5/23/2002	5/29/2002	6/ 4/2002	6/12/2002

# Shift Operation Data

*February, 2002*

Day	Hrs	Unit 1			Unit2			X08	X27	G05 Gen	G05 Aux
		Gen	X02	X04	Gen	X02	X04				
1	24	94705.0	9622.0	25291.0	13193.0	96325.0	61351.0	6391.0	474.0	5686.0	6294.0
2	24	95966.0	10097.0	25329.0	13744.0	96743.0	61392.0	6393.0	485.0	5686.0	6309.0
3	24	97232.0	10575.0	25363.0	14307.0	97162.0	61433.0	6395.0	498.0	5686.0	6325.0
4	24	98508.0	11055.0	25399.0	15551.0	97635.0	61477.0	6397.0	511.0	5686.0	6343.0
5	24	99757.0	11534.0	25434.0	16821.0	98110.0	61507.0	6399.0	524.0	5686.0	6358.0
6	24	1013.0	12012.0	25469.0	18099.0	98582.0	61543.0	6401.0	535.0	5686.0	6372.0
7	24	2260.0	12499.0	25504.0	19379.0	99047.0	61581.0	6403.0	547.0	5686.0	6384.0
8	24	3531.0	12967.0	25538.0	20659.0	99512.0	61621.0	6405.0	558.0	5688.0	6388.0
9	24	4797.0	13445.0	25571.0	21943.0	99978.0	61658.0	6407.0	568.0	5688.0	6412.0
10	24	6056.0	13923.0	25606.0	23227.0	445.0	61699.0	6409.0	580.0	5688.0	6431.0
11	24	7323.0	14406.0	25641.0	24510.0	913.0	61740.0	6411.0	591.0	5688.0	6446.0
12	24	8585.0	14887.0	25676.0	25789.0	1380.0	61778.0	6413.0	603.0	5688.0	6461.0
13	24	9840.0	15367.0	25710.0	27062.0	1847.0	61818.0	6415.0	615.0	5688.0	6476.0
14	24	11115.0	15846.0	25745.0	28341.0	2312.0	61858.0	6417.0	626.0	5688.0	6489.0
15	24	12377.0	16324.0	25778.0	29619.0	2778.0	61897.0	6419.0	637.0	5688.0	6501.0
16	24	13646.0	16803.0	25812.0	30905.0	3246.0	61932.0	6421.0	648.0	5688.0	6513.0
17	24	14906.0	17281.0	25846.0	32180.0	3711.0	61971.0	6423.0	659.0	5688.0	6527.0
18	24	16172.0	17760.0	25881.0	33463.0	4178.0	62007.0	6425.0	670.0	5688.0	6541.0
19	24	17438.0	18240.0	25914.0	34747.0	4646.0	62044.0	6427.0	681.0	5688.0	6553.0
20	24	18705.0	18720.0	25948.0	36031.0	5115.0	62082.0	6429.0	692.0	5688.0	6566.0
21	24	19968.0	19201.0	25983.0	37310.0	5587.0	62121.0	6431.0	703.0	5688.0	6582.0
22	24	21233.0	19683.0	26017.0	38236.0	5942.0	62238.0	6433.0	717.0	5688.0	6596.0
23	24	22495.0	20163.0	26051.0	38236.0	5942.0	62640.0	6435.0	728.0	5688.0	6610.0
24	24	23760.0	20642.0	26085.0	38236.0	5942.0	63039.0	6436.0	730.0	5688.0	6621.0
25	24	25026.0	21123.0	26119.0	38281.0	5995.0	63359.0	6438.0	752.0	5688.0	6636.0
26	24	26288.0	21602.0	26152.0	39322.0	6445.0	63408.0	6440.0	764.0	5688.0	6653.0
27	24	27552.0	22083.0	26183.0	40601.0	6923.0	63459.0	6442.0	777.0	5688.0	6668.0
28	24	28812.0	22562.0	26219.0	41878.0	7396.0	63501.0	6444.0	790.0	5688.0	6682.0