



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

December 7, 2001

NRC-2001-084
GL 97-02

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

Ladies/Gentlemen:

DOCKET NUMBERS 50-266 AND 50-301
OPERATING LICENSES DPR-24 AND DPR-27
POINT BEACH NUCLEAR POWER 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 November 2001.

Sincerely,

T. J. Webb
Licensing Director

KML

Attachment

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

IE24

David
01/14/02

Docket 50-266 and 50-301
NRC-2001-084

Bcc:	R. A. Abdoo (WE)	D. E. Day	M. E. Reddemann	K. E. Peveler
	R. A. Anderson(NMC)	S. T. Moore	G. A. Charnoff	C. B. Jilek
	INPO Records Center	A. J. Cayia	R. G. Mende	McGraw-Hill
	Companies			
	R. R. Grigg (WE)	R. M. Pederson	C. S. Smoker (NMC)	T. E. Ruiz
	D. F. Johnson(NMC)	T. W. Hanna	G. D. Strharsky	R. R. Winget
	D. A. Weaver (WE)	R. P. Pulec (KNPP)	RSL File (3)	File

ATTACHMENT 1

Letter from Thomas J. Webb (NMC)

To

Document Control Desk (NRC)

- Docket 50-266 and 50-301
NRC-2001-084

ATTACHMENT 1

Letter from Thomas J. Webb (NMC)

To

Document Control Desk (NRC)

OPERATING DATA REPORT

DOCKET NO. 50-266

DATE: 12/04/01

COMPLETED BY: Kim M. Locke

TELEPHONE: 920-755-6,420

OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 1
2. REPORTING PERIOD: November - 2001
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:
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE): N/A
10. REASONS FOR RESTRICTIONS, (IF ANY):
N/A

NOTES

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	720.0	8,016.0	272,351.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	6,936.4	222,865.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	667.3
14. HOURS GENERATOR ONLINE	720.0	6,868.9	219,350.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	846.9
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,090,973.0	10,071,636.0	312,904,591.0
17. GROSS ELECTRICAL ENERGY GENERATED	382,490.0	3,492,010.0	106,157,850.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	366,172.0	3,334,204.0	101,207,628.5
19. UNIT SERVICE FACTOR	100.0%	85.7%	80.5%
20. UNIT AVAILABILITY FACTOR	100.0%	85.7%	80.9%
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.7%	81.6%	76.0%
22. UNIT CAPACITY FACTOR (USING DER NET)	98.8%	80.8%	74.5%
23. UNIT FORCED OUTAGE RATE	0.0%	0.0%	4.5%

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

POINT BEACH NUCLEAR PLANT

AVERAGE DAILY UNIT POWER LEVELMONTH NOVEMBER - 2001

DOCKET NO.

50-266

UNIT NAME:

Point Beach, Unit 1

DATE:

12/04/01

COMPLETED BY:

Kim M. Locke

TELEPHONE:

920-755-6420

<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>519</u>	11	<u>515</u>	21	<u>511</u>
2	<u>503</u>	12	<u>509</u>	22	<u>510</u>
3	<u>505</u>	13	<u>512</u>	23	<u>510</u>
4	<u>504</u>	14	<u>515</u>	24	<u>512</u>
5	<u>503</u>	15	<u>501</u>	25	<u>509</u>
6	<u>505</u>	16	<u>503</u>	26	<u>510</u>
7	<u>504</u>	17	<u>508</u>	27	<u>509</u>
8	<u>503</u>	18	<u>508</u>	28	<u>510</u>
9	<u>510</u>	19	<u>510</u>	29	<u>511</u>
10	<u>510</u>	20	<u>509</u>	30	<u>509</u>

DOCKET NO.	50-266
UNIT NAME	Point Beach Unit 1
DATE	12/04/2001
COMPLETED BY	K. M. Locke
TELEPHONE	920/755-6420

The daily power average for Unit 1 during November 2001 was 508.6 MWe.

There were no Licensee Event Reports (LER) submitted to the NRC during 2001:

There was no major safety-related maintenance performed during November 2001.

POINT BEACH NUCLEAR PLANT

UNIT SHUTDOWNS AND POWER REDUCTIONSREPORT MONTH November - 2001

Docket No. 50-266
 Unit Name Point Beach, Unit 1
 Date 12/4/2001
 Completed By K.M. Locke
 Telephone No. 920/755-6420

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

¹F: Forced
S: Scheduled

²Reason:
 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)

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

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

⁵Exhibit I - Same Source

OPERATING DATA REPORT

DOCKET NO. 50-301

DATE: 12/04/01

COMPLETED BY: Kim M. Locke

TELEPHONE: 920-755-6,420

OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 2
2. REPORTING PERIOD: November - 2001
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:

NOTES

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

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	720.0	8,016.0	257,136.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	7,935.9	217,037.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	233.9
14. HOURS GENERATOR ONLINE	720.0	7,912.2	214,110.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	302.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,088,058.0	11,882,011.0	308,942,674.0
17. GROSS ELECTRICAL ENERGY GENERATED	385,160.0	4,148,390.0	105,339,500.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	368,675.0	3,971,173.0	100,411,706.5
19. UNIT SERVICE FACTOR	100.0%	98.7%	83.3%
20. UNIT AVAILABILITY FACTOR	100.0%	98.7%	83.4%
21. UNIT CAPACITY FACTOR (USING MDC NET)	100.0%	96.8%	79.7%
22. UNIT CAPACITY FACTOR (USING DER NET)	99.4%	96.2%	78.3%
23. UNIT FORCED OUTAGE RATE	0.0%	1.3%	2.2%

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

POINT BEACH NUCLEAR PLANT

AVERAGE DAILY UNIT POWER LEVEL

MONTH NOVEMBER - 2001

DOCKET NO. 50-301
UNIT NAME: Point Beach, Unit 2
DATE: 12/04/01
COMPLETED BY: Kim M. Locke
TELEPHONE: 920-755-6420

<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>517</u>	11	<u>515</u>	21	<u>514</u>
2	<u>512</u>	12	<u>511</u>	22	<u>516</u>
3	<u>514</u>	13	<u>515</u>	23	<u>513</u>
4	<u>514</u>	14	<u>500</u>	24	<u>514</u>
5	<u>514</u>	15	<u>472</u>	25	<u>514</u>
6	<u>514</u>	16	<u>515</u>	26	<u>514</u>
7	<u>513</u>	17	<u>514</u>	27	<u>512</u>
8	<u>512</u>	18	<u>514</u>	28	<u>514</u>
9	<u>514</u>	19	<u>515</u>	29	<u>513</u>
10	<u>514</u>	20	<u>514</u>	30	<u>514</u>

DOCKET NO.	50-301
UNIT NAME	Point Beach Unit 2
DATE	12/04/2001
COMPLETED BY	K.M. Locke
TELEPHONE	920/755-6420

The daily power average for Unit 2 during November 2001 was 512.1 MWe.

There were no Licensee Event Reports (LER) submitted to the NRC during November 2001:

There was no major safety-related maintenance performed during November 2001.

POINT BEACH NUCLEAR PLANT

UNIT SHUTDOWNS AND POWER REDUCTIONSREPORT MONTH November - 2001

Docket No. 50-301
 Unit Name Point Beach, Unit 2
 Date 12/4/2001
 Completed By K.M. Locke
 Telephone No. 920/755-6420

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

¹F: Forced
 S: Scheduled

²Reason:
 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)

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

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

⁵Exhibit I - Same Source

POINT BEACH NUCLEAR PLANT OPERATING SUMMARY REPORT
UNIT 1 - NOVEMBER 2001

<u>ELECTRICAL</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
GROSS GENERATION	MWH	382,490.0	3,492,010.0	106,157,850.0
TOTAL STATION SERVICE	MWH	16,318.0	157,806.0	4,950,221.5
NET OUTPUT	MWH	366,172.0	3,334,204.0	101,207,628.5
AVG. GROSS GENERATION FOR MONTH	MWH	531.2	435.6	389.8
AVG. GROSS GENERATION RUNNING	MWH	531.2	508.4	484.0
TOTAL STATION SERVICE/GROSS GEN.	%	4.3%	4.5%	4.7%
HOURS OF GENERATION	HRS	720.0	6,868.9	219,350.0

<u>PLANT PERFORMANCE</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
NET PLANT EFFICIENCY	%	33.56%	33.10%	32.34%
NET PLANT HEAT RATE	BTU/KWH	10,167.9	10,308.9	10,551.2
NUMBER OF DAYS OF OPERATION	DAYS	30	323	10,021
UNIT NET CAPACITY FACTOR	%	99.7%	81.6%	76.0%
UNIT SERVICE FACTOR	%	100.0%	85.7%	80.5%
SCHEDULED OUTAGES		0	2	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%	4.5%

<u>NUCLEAR</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
HOURS CRITICAL	HRS	720.0	6,936.4	222,865.8
TOTAL HOURS POSSIBLE	HRS	720.0	8,016.0	272,351.0
INADVERTANT REACTOR TRIPS		0	0	57
DURATION OF REACTOR DOWN TIME	HRS	0.0	1,079.6	49,569.2
REACTOR CAPACITY FACTOR	%	99.8%	82.7%	75.7%
REACTOR SERVICE FACTOR	%	100.0%	86.5%	81.8%
THERMAL POWER GENERATED	MWTHR	1,090,973.0	10,071,636.0	312,904,591.0

THERMAL POWER GENERATED THIS FUEL CYCLE	MWTHR	6,599,921.0
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POINT BEACH NUCLEAR PLANT OPERATING SUMMARY REPORT
UNIT 2 - NOVEMBER 2001

<u>ELECTRICAL</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
GROSS GENERATION	MWH	385,160.0	4,148,390.0	105,339,500.0
TOTAL STATION SERVICE	MWH	16,485.0	177,217.0	4,927,793.5
NET OUTPUT	MWH	368,675.0	3,971,173.0	100,411,706.5
AVG. GROSS GENERATION FOR MONTH	MWH	534.9	517.5	409.7
AVG. GROSS GENERATION RUNNING	MWH	534.9	524.3	492.0
TOTAL STATION SERVICE/GROSS GEN.	%	4.3%	4.3%	4.7%
HOURS OF GENERATION	HRS	720.0	7,912.2	214,110.2

<u>PLANT PERFORMANCE</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
NET PLANT EFFICIENCY	%	33.88%	33.42%	32.50%
NET PLANT HEAT RATE	BTU/KWH	10,071.9	10,211.2	10,500.2
NUMBER OF DAYS OF OPERATION	DAYS	30	331	9,059
UNIT NET CAPACITY FACTOR	%	100.0%	96.8%	79.7%
UNIT SERVICE FACTOR	%	100.0%	98.7%	83.3%
SCHEDULED OUTAGES		0	0	92
FORCED OUTAGES		0	1	58
FORCED OUTAGE HOURS	HRS	0.0	104.6	4,829.3
UNIT FORCED OUTAGE RATE	%	0.0%	1.3%	2.2%

<u>NUCLEAR</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
HOURS CRITICAL	HRS	720.0	7,935.9	217,037.6
TOTAL HOURS POSSIBLE	HRS	720.0	8,016.0	257,136.0
INADVERTANT REACTOR TRIPS		0	2	50
DURATION OF REACTOR DOWN TIME	HRS	0.0	80.1	40,098.4
REACTOR CAPACITY FACTOR	%	99.5%	97.6%	79.1%
REACTOR SERVICE FACTOR	%	100.0%	99.0%	84.4%
THERMAL POWER GENERATED	MWTHR	1,088,058.0	11,882,011.0	308,942,674.0

THERMAL POWER GENERATED THIS FUEL CYCLE	MWTHR	12,255,781.0
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POINT BEACH SHIFT OPERATIONAL DATA SUMMARY

November, 2001

	Unit 1							Unit 2						
DAY	Gen	X02	X04	X08	X27	Net MWhr	Avg MWe	Gen	X02	X04	X08	X27	Net MWhr	Avg MWe
1	12980.0	479.0	36.0	0.5	6.0	12458.5	519.1	12960.0	509.0	37.0	0.5	6.0	12407.5	517.0
2	12580.0	477.0	36.0	1.0	5.0	12061.0	502.5	12840.0	505.0	36.0	1.0	5.0	12293.0	512.2
3	12630.0	476.0	35.0	0.5	5.0	12113.5	504.7	12890.0	506.0	38.0	0.5	5.0	12340.5	514.2
4	12620.0	477.0	37.0	1.0	5.0	12100.0	504.2	12890.0	507.0	35.0	1.0	5.0	12342.0	514.2
5	12580.0	477.0	37.0	0.5	5.5	12060.0	502.5	12880.0	507.0	37.0	0.5	5.5	12330.0	513.8
6	12640.0	478.0	36.0	1.0	5.0	12120.0	505.0	12890.0	508.0	35.0	1.0	5.0	12341.0	514.2
7	12620.0	477.0	37.0	0.5	5.5	12100.0	504.2	12870.0	507.0	38.0	0.5	5.5	12319.0	513.3
8	12600.0	478.0	36.0	1.0	5.0	12080.0	503.3	12840.0	508.0	36.0	1.0	5.0	12290.0	512.1
9	12780.0	499.0	38.0	1.0	5.5	12236.5	509.9	12890.0	512.0	38.0	1.0	5.5	12333.5	513.9
10	12780.0	499.0	38.0	1.0	5.5	12236.5	509.9	12890.0	512.0	38.0	1.0	5.5	12333.5	513.9
11	12930.0	527.0	31.0	1.0	4.5	12366.5	515.3	12920.0	513.0	34.0	1.0	4.5	12367.5	515.3
12	12770.0	508.0	37.0	1.0	5.5	12218.5	509.1	12830.0	510.0	38.0	1.0	5.5	12275.5	511.5
13	12830.0	513.0	35.0	0.5	5.0	12276.5	511.5	12920.0	512.0	34.0	0.5	5.0	12368.5	515.4
14	12920.0	516.0	31.0	1.0	5.5	12366.5	515.3	12540.0	508.0	35.0	1.0	5.5	11990.5	499.6
15	12570.0	501.0	37.0	1.0	5.5	12025.5	501.1	11860.0	488.0	36.0	1.0	5.5	11329.5	472.1
16	12630.0	508.0	36.0	1.0	5.5	12079.5	503.3	12900.0	504.0	37.0	1.0	5.5	12352.5	514.7
17	12750.0	508.0	36.0	1.0	5.0	12200.0	508.3	12870.0	504.0	35.0	1.0	5.0	12325.0	513.5
18	12750.0	510.0	36.0	0.5	4.5	12199.0	508.3	12880.0	504.0	35.0	0.5	4.5	12336.0	514.0
19	12790.0	511.0	37.0	1.0	5.5	12235.5	509.8	12900.0	503.0	35.0	1.0	5.5	12355.5	514.8
20	12780.0	512.0	38.0	1.5	5.5	12223.0	509.3	12880.0	508.0	37.0	1.5	5.5	12328.0	513.7
21	12840.0	522.0	37.0	1.0	5.5	12274.5	511.4	12900.0	519.0	36.0	1.0	5.5	12338.5	514.1
22	12780.0	501.0	36.0	0.5	4.5	12238.0	509.9	12910.0	497.0	34.0	0.5	4.5	12374.0	515.6
23	12800.0	511.0	37.0	1.0	5.5	12245.5	510.2	12870.0	508.0	35.0	1.0	5.5	12320.5	513.4
24	12830.0	511.0	37.0	1.0	5.0	12276.0	511.5	12890.0	508.0	35.0	1.0	5.0	12341.0	514.2
25	12760.0	510.0	36.0	1.0	4.5	12208.5	508.7	12890.0	508.0	33.0	1.0	4.5	12343.5	514.3
26	12800.0	511.0	37.0	1.0	5.5	12245.5	510.2	12890.0	509.0	36.0	1.0	5.5	12338.5	514.1
27	12780.0	513.0	37.0	0.5	5.0	12224.5	509.4	12840.0	510.0	35.0	0.5	5.0	12289.5	512.1
28	12800.0	513.0	37.0	1.0	5.5	12243.5	510.1	12880.0	511.0	37.0	1.0	5.5	12325.5	513.6
29	12810.0	511.0	38.0	1.0	5.0	12255.0	510.6	12870.0	510.0	36.0	1.0	5.0	12318.0	513.2
30	12760.0	511.0	38.0	1.0	5.5	12204.5	508.5	12880.0	510.0	36.0	1.0	5.5	12327.5	513.6

MONTHLY TOTALS - UNIT 1

Gross Generation: 382,490.0 MW hr
 Total Station Service: 16,318.0 MW hr
 Net Generation: 366,172.0 MW hr
 Average Daily Power: 508.6 MWe

MONTHLY TOTALS - UNIT 2

Gross Generation: 385,160.0 MW hr
 Total Station Service: 16,485.0 MW hr
 Net Generation: 368,675.0 MW hr
 Average Daily Power: 512.1 MWe

Shift Operation Data

November, 2001

Day	Hrs	Unit 1			Unit2			X08	X27	G05 Gen	G05 Aux
		Gen	X02	X04	Gen	X02	X04				
1	24	78834.0	64735.0	21950.0	96772.0	51064.0	57888.0	6210.0	9468.0	5674.0	5183.0
2	24	80092.0	65212.0	21986.0	98056.0	51569.0	57924.0	6212.0	9478.0	5676.0	5193.0
3	24	81355.0	65688.0	22021.0	99345.0	52075.0	57962.0	6213.0	9488.0	5676.0	5202.0
4	24	82617.0	66165.0	22058.0	634.0	52582.0	57997.0	6215.0	9498.0	5676.0	5210.0
5	24	83875.0	66642.0	22095.0	1922.0	53089.0	58034.0	6216.0	9509.0	5676.0	5217.0
6	24	85139.0	67120.0	22131.0	3211.0	53597.0	58069.0	6218.0	9519.0	5676.0	5224.0
7	24	86401.0	67597.0	22168.0	4498.0	54104.0	58107.0	6219.0	9530.0	5676.0	5231.0
8	24	87661.0	68075.0	22204.0	5782.0	54612.0	58143.0	6221.0	9540.0	5676.0	5239.0
9	24	88939.0	68574.0	22242.0	7071.0	55124.0	58181.0	6223.0	9551.0	5676.0	5248.0
10	24	90217.0	69073.0	22280.0	8360.0	55636.0	58219.0	6225.0	9562.0	5676.0	5257.0
11	24	91510.0	69600.0	22311.0	9652.0	56149.0	58253.0	6227.0	9571.0	5676.0	5266.0
12	24	92787.0	70108.0	22348.0	10935.0	56659.0	58291.0	6229.0	9582.0	5676.0	5275.0
13	24	94070.0	70621.0	22383.0	12227.0	57171.0	58325.0	6230.0	9592.0	5676.0	5282.0
14	24	95362.0	71137.0	22414.0	13481.0	57679.0	58360.0	6232.0	9603.0	5676.0	5288.0
15	24	96619.0	71638.0	22451.0	14667.0	58167.0	58396.0	6234.0	9614.0	5676.0	5293.0
16	24	97882.0	72146.0	22487.0	15957.0	58671.0	58433.0	6236.0	9625.0	5676.0	5299.0
17	24	99157.0	72654.0	22523.0	17244.0	59175.0	58468.0	6238.0	9635.0	5676.0	5307.0
18	24	432.0	73164.0	22559.0	18532.0	59679.0	58503.0	6239.0	9644.0	5676.0	5314.0
19	24	1711.0	73675.0	22596.0	19822.0	60182.0	58538.0	6241.0	9655.0	5676.0	5325.0
20	24	2989.0	74187.0	22634.0	21110.0	60690.0	58575.0	6244.0	9666.0	5676.0	5337.0
21	24	4273.0	74709.0	22671.0	22400.0	61209.0	58611.0	6246.0	9677.0	5679.0	5348.0
22	24	5551.0	75210.0	22707.0	23691.0	61706.0	58645.0	6247.0	9686.0	5679.0	5357.0
23	24	6831.0	75721.0	22744.0	24978.0	62214.0	58680.0	6249.0	9697.0	5679.0	5365.0
24	24	8114.0	76232.0	22781.0	26267.0	62722.0	58715.0	6251.0	9707.0	5679.0	5374.0
25	24	9390.0	76742.0	22817.0	27556.0	63230.0	58748.0	6253.0	9716.0	5679.0	5382.0
26	24	10670.0	77253.0	22854.0	28845.0	63739.0	58784.0	6255.0	9727.0	5679.0	5392.0
27	24	11948.0	77766.0	22891.0	30129.0	64249.0	58819.0	6256.0	9737.0	5679.0	5404.0
28	24	13228.0	78279.0	22928.0	31417.0	64760.0	58856.0	6258.0	9748.0	5679.0	5416.0
29	24	14509.0	78790.0	22966.0	32704.0	65270.0	58892.0	6260.0	9758.0	5679.0	5426.0
30	24	15785.0	79301.0	23004.0	33992.0	65780.0	58928.0	6262.0	9769.0	5679.0	5436.0

PBNP UNIT 1 CYCLE 27 NOVEMBER 2001 - BURNUP SYNOPSIS & REFUELING SCHEDULING DATA

BURNUP DATA IN MWD/MTU

	THIS	TOTAL	
	PERIOD	CYCLE 27	TOTAL
CYCLE AVERAGE	1028.	6222.	26659.
REGION AVERAGE			
126B	363.	2144.	38131.
127A	306.	1786.	43168.
127B	711.	4254.	44195.
128A	1218.	7479.	29396.
128B	1326.	8158.	28083.
129A	1384.	8243.	8243.
129B	1229.	7387.	7387.
CORE MWTHR	1090973.	6599921.	28280320.
DAYS IN PERIOD/CYCLE	30	201	
POWER FACTOR	99.8%	90.1%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	16067.	15106.	* 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: DESIGN BURNUP IS THE END OF CYCLE BURNUP THAT WAS
BURNUP FOR CYCLE 27 (MWD/MTU)	16285.	16200.	USED IN THE FINAL CORE DESIGN. TEN PPM BURNUP IS
REMAINING EFFECTIVE FULL POWER DAYS	292.9	290.4	THE CORE AVERAGE BURNUP PROJECTED AT TEN PPM BORON
FRACTION OF CYCLE LIFE EXPENDED	38.2%	38.4%	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	9/17/2002	10/ 2/2002	10/19/2002	11/ 7/2002	11/29/2002	12/23/2002	1/19/2003	2/20/2003
DESIGN BURNUP DATE	9/19/2002	10/ 5/2002	10/22/2002	11/10/2002	12/ 2/2002	12/26/2002	1/23/2003	2/24/2003

PBNP UNIT 2 CYCLE 25 NOVEMBER 2001 - BURNUP SYNOPSIS & REFUELING SCHEDULING DATA

BURNUP DATA IN MWD/MTU

	THIS PERIOD	TOTAL CYCLE 25	TOTAL
CYCLE AVERAGE	1019.	11477.	30632.
REGION AVERAGE			
223D	317.	3307.	47066.
224A	284.	2946.	38252.
225A	669.	7373.	36415.
225B	415.	4430.	42098.
226A	1086.	12227.	40437.
226B	1234.	14208.	37786.
227A	1317.	14781.	14781.
227B	1147.	13002.	13002.
CORE MWTHR	1088058.	12255781.	32711608.
DAYS IN PERIOD/CYCLE	30	349	
POWER FACTOR	99.6%	96.4%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	15997.	15851.	* BASED ON DAYS REMAINING UNTIL REFUELING DATE ASSUMING PERIOD OR CYCLE POWER FACTOR

REFUELING SCHEDULE DATA			
SCHEDULED REFUELING DATE	4/13/2002		
BURNUP FOR CYCLE 25 (MWD/MTU)	DESIGN 16660.	TEN PPM 16660.	NOTE: DESIGN BURNUP IS THE END OF CYCLE BURNUP THAT WAS USED IN THE FINAL CORE DESIGN. TEN PPM BURNUP IS THE CORE AVERAGE BURNUP PROJECTED AT TEN PPM BORON BASED ON CURRENT BORON FOLLOW RESULTS.
REMAINING EFFECTIVE FULL POWER DAYS	151.9	151.9	
FRACTION OF CYCLE LIFE EXPENDED	68.9%	68.9%	

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/ 1/2002	5/ 9/2002	5/18/2002	5/28/2002	6/ 8/2002	6/21/2002	7/ 5/2002	7/22/2002
DESIGN BURNUP DATE	5/ 1/2002	5/ 9/2002	5/18/2002	5/28/2002	6/ 8/2002	6/21/2002	7/ 5/2002	7/22/2002