



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 2002-0003

GL 97-02

January 7, 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 December 2001.

Sincerely,

T. J. Webb
Licensing Director

KML

Attachment

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

WMS10

Docket 50-266 and 50-301
NRC-2002-0003

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

ATTACHMENT 1

Letter from Thomas J. Webb (NMC)

To

Document Control Desk (NRC)

Dated

January 7, 2002

Re: Monthly Operating Report – December 2001

OPERATING DATA REPORT

DOCKET NO. 50-266

DATE: 01/04/02

COMPLETED BY: Kim M. Locke

TELEPHONE: 920-755-6,420

OPERATING STATUS

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

NOTES

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

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.0	8,760.0	273,095.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	7,680.4	223,609.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	667.3
14. HOURS GENERATOR ONLINE	744.0	7,612.9	220,094.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	846.9
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,097,860.0	11,169,496.0	314,002,451.0
17. GROSS ELECTRICAL ENERGY GENERATED	384,250.0	3,876,260.0	106,542,100.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	367,891.5	3,702,095.5	101,575,520.0
19. UNIT SERVICE FACTOR	100.0%	86.9%	80.6%
20. UNIT AVAILABILITY FACTOR	100.0%	86.9%	80.9%
21. UNIT CAPACITY FACTOR (USING MDC NET)	97.0%	82.9%	76.1%
22. UNIT CAPACITY FACTOR (USING DER NET)	96.0%	82.1%	74.6%
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

APPENDIX B
UNIT SHUTDOWNS

DOCKET NO. 50-266
UNIT NAME: Point Beach, Unit 1
DATE: 01/03/02
COMPLETED BY: Kim M. Locke
TELEPHONE: 755-6420

REPORTING PERIOD: December 2001
(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 December was 494.5 MWe.
There were no Licensee Event Reports (LERs) submitted to the NRC .
There were no Significant Operating Events.

POINT BEACH NUCLEAR PLANT

AVERAGE DAILY UNIT POWER LEVELMONTH DECEMBER - 2001

DOCKET NO. 50-266
UNIT NAME: Point Beach, Unit 1
DATE: 01/07/02
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>511</u>	11	<u>494</u>	21	<u>496</u>
2	<u>510</u>	12	<u>493</u>	22	<u>493</u>
3	<u>502</u>	13	<u>491</u>	23	<u>494</u>
4	<u>500</u>	14	<u>492</u>	24	<u>496</u>
5	<u>497</u>	15	<u>493</u>	25	<u>506</u>
6	<u>497</u>	16	<u>495</u>	26	<u>504</u>
7	<u>497</u>	17	<u>493</u>	27	<u>503</u>
8	<u>497</u>	18	<u>432</u>	28	<u>509</u>
9	<u>498</u>	19	<u>437</u>	29	<u>503</u>
10	<u>496</u>	20	<u>493</u>	30	<u>504</u>
				31	<u>505</u>

OPERATING DATA REPORT

DOCKET NO. 50-301

DATE: 01/04/02

COMPLETED BY: Kim M. Locke

TELEPHONE: 920-755-6,420

OPERATING STATUS

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

NOTES

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.0	8,760.0	257,880.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	8,679.9	217,781.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	233.9
14. HOURS GENERATOR ONLINE	744.0	8,656.2	214,854.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	302.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,105,743.0	12,987,754.0	310,048,417.0
17. GROSS ELECTRICAL ENERGY GENERATED	388,540.0	4,536,930.0	105,728,040.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	371,800.5	4,342,973.5	100,783,507.0
19. UNIT SERVICE FACTOR	100.0%	98.8%	83.3%
20. UNIT AVAILABILITY FACTOR	100.0%	98.8%	83.4%
21. UNIT CAPACITY FACTOR (USING MDC NET)	97.6%	96.8%	79.7%
22. UNIT CAPACITY FACTOR (USING DER NET)	97.0%	96.3%	78.4%
23. UNIT FORCED OUTAGE RATE	0.0%	1.2%	2.2%

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

APPENDIX B
UNIT SHUTDOWNS

DOCKET NO. 50-301
UNIT NAME: Point Beach, Unit 2
DATE: 01/03/02
COMPLETED BY: Kim M. Locke
TELEPHONE: 755-6420

REPORTING PERIOD: December 2001
(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 2 average daily power for the month of December was 499.7MWe.
There were no Licensee Event Reports (LERs) submitted to the NRC.
There were no Significant Operating Events.

POINT BEACH NUCLEAR PLANT

AVERAGE DAILY UNIT POWER LEVELMONTH DECEMBER - 2001

DOCKET NO. 50-301
UNIT NAME: Point Beach, Unit 2
DATE: 01/07/02
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>513</u>	11	<u>499</u>	21	<u>496</u>
2	<u>514</u>	12	<u>490</u>	22	<u>494</u>
3	<u>503</u>	13	<u>496</u>	23	<u>492</u>
4	<u>500</u>	14	<u>499</u>	24	<u>495</u>
5	<u>498</u>	15	<u>499</u>	25	<u>504</u>
6	<u>499</u>	16	<u>499</u>	26	<u>502</u>
7	<u>496</u>	17	<u>500</u>	27	<u>501</u>
8	<u>499</u>	18	<u>499</u>	28	<u>507</u>
9	<u>499</u>	19	<u>500</u>	29	<u>499</u>
10	<u>499</u>	20	<u>501</u>	30	<u>501</u>
				31	<u>500</u>

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

<u>ELECTRICAL</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
GROSS GENERATION	MWH	384,250.0	3,876,260.0	106,542,100.0
TOTAL STATION SERVICE	MWH	16,358.5	174,164.5	4,966,580.0
NET OUTPUT	MWH	367,891.5	3,702,095.5	101,575,520.0
AVG. GROSS GENERATION FOR MONTH	MWH	516.5	442.5	390.1
AVG. GROSS GENERATION RUNNING	MWH	516.5	509.2	484.1
TOTAL STATION SERVICE/GROSS GEN.	%	4.3%	4.5%	4.7%
HOURS OF GENERATION	HRS	744.0	7,612.9	220,094.0

<u>PLANT PERFORMANCE</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
NET PLANT EFFICIENCY	%	33.51%	33.14%	32.35%
NET PLANT HEAT RATE	BTU/KWH	10,184.3	10,296.5	10,549.9
NUMBER OF DAYS OF OPERATION	DAYS	31	354	10,052
UNIT NET CAPACITY FACTOR	%	97.0%	82.9%	76.1%
UNIT SERVICE FACTOR	%	100.0%	86.9%	80.6%
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%	4.4%

<u>NUCLEAR</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
HOURS CRITICAL	HRS	744.0	7,680.4	223,609.8
TOTAL HOURS POSSIBLE	HRS	744.0	8,760.0	273,095.0
INADVERTANT REACTOR TRIPS		0	0	57
DURATION OF REACTOR DOWN TIME	HRS	0.0	1,079.6	49,569.2
REACTOR CAPACITY FACTOR	%	97.2%	84.0%	75.7%
REACTOR SERVICE FACTOR	%	100.0%	87.7%	81.9%
THERMAL POWER GENERATED	MWTHR	1,097,860.0	11,169,496.0	314,002,451.0

THERMAL POWER GENERATED THIS FUEL CYCLE MWTHR 7,697,781.0

POINT BEACH NUCLEAR PLANT OPERATING SUMMARY REPORT
UNIT 2 - DECEMBER 2001

<u>ELECTRICAL</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
GROSS GENERATION	MWH	388,540.0	4,536,930.0	105,728,040.0
TOTAL STATION SERVICE	MWH	16,739.5	193,956.5	4,944,533.0
NET OUTPUT	MWH	371,800.5	4,342,973.5	100,783,507.0
AVG. GROSS GENERATION FOR MONTH	MWH	522.2	517.9	410.0
AVG. GROSS GENERATION RUNNING	MWH	522.2	524.1	492.1
TOTAL STATION SERVICE/GROSS GEN.	%	4.3%	4.3%	4.7%
HOURS OF GENERATION	HRS	744.0	8,656.2	214,854.2

<u>PLANT PERFORMANCE</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
NET PLANT EFFICIENCY	%	33.62%	33.44%	32.51%
NET PLANT HEAT RATE	BTU/KWH	10,149.6	10,205.9	10,498.9
NUMBER OF DAYS OF OPERATION	DAYS	31	362	9,090
UNIT NET CAPACITY FACTOR	%	97.6%	96.8%	79.7%
UNIT SERVICE FACTOR	%	100.0%	98.8%	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%	1.2%	2.2%

<u>NUCLEAR</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
HOURS CRITICAL	HRS	744.0	8,679.9	217,781.6
TOTAL HOURS POSSIBLE	HRS	744.0	8,760.0	257,880.0
INADVERTANT REACTOR TRIPS		0	2	50
DURATION OF REACTOR DOWN TIME	HRS	0.0	80.1	40,098.4
REACTOR CAPACITY FACTOR	%	97.9%	97.6%	79.2%
REACTOR SERVICE FACTOR	%	100.0%	99.1%	84.5%
THERMAL POWER GENERATED	MWTHR	1,105,743.0	12,987,754.0	310,048,417.0

THERMAL POWER GENERATED THIS FUEL CYCLE	MWTHR	13,361,524.0
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POINT BEACH SHIFT OPERATIONAL DATA SUMMARY

December, 2001

DAY	Unit 1								Unit 2							
	Gen	X02	X04	X08	X27	Net MWhr	Avg MWe		Gen	X02	X04	X08	X27	Net MWhr	Avg MWe	
1	12810.0	511.0	37.0	1.0	5.0	12256.0	510.7		12870.0	511.0	35.0	1.0	5.0	12318.0	513.2	
2	12800.0	510.0	34.0	1.0	5.0	12250.0	510.4		12880.0	509.0	36.0	1.0	5.0	12329.0	513.7	
3	12600.0	509.0	37.0	1.0	5.5	12047.5	502.0		12630.0	509.0	36.0	1.0	5.5	12078.5	503.3	
4	12550.0	509.0	36.0	1.0	5.5	11998.5	499.9		12540.0	507.0	36.0	1.0	5.5	11990.5	499.6	
5	12470.0	508.0	35.0	1.0	5.0	11921.0	496.7		12510.0	507.0	37.0	1.0	5.0	11960.0	498.3	
6	12480.0	508.0	36.0	1.0	5.0	11930.0	497.1		12530.0	508.0	37.0	1.0	5.0	11979.0	499.1	
7	12470.0	508.0	36.0	1.0	5.5	11919.5	496.6		12450.0	508.0	38.0	1.0	5.5	11897.5	495.7	
8	12480.0	508.0	36.0	1.0	5.0	11930.0	497.1		12530.0	507.0	36.0	1.0	5.0	11981.0	499.2	
9	12490.0	509.0	34.0	1.5	5.5	11940.0	497.5		12530.0	509.0	39.0	1.5	5.5	11975.0	499.0	
10	12440.0	502.0	35.0	0.5	5.5	11897.0	495.7		12530.0	507.0	38.0	0.5	5.5	11979.0	499.1	
11	12370.0	476.0	37.0	1.5	5.5	11850.0	493.8		12510.0	502.0	37.0	1.5	5.5	11964.0	498.5	
12	12350.0	474.0	38.0	0.5	5.0	11832.5	493.0		12270.0	473.0	39.0	0.5	5.0	11752.5	489.7	
13	12310.0	474.0	36.0	1.0	6.0	11793.0	491.4		12460.0	501.0	38.0	1.0	6.0	11914.0	496.4	
14	12340.0	475.0	48.0	1.0	6.0	11810.0	492.1		12530.0	508.0	39.0	1.0	6.0	11976.0	499.0	
15	12350.0	474.0	27.0	1.0	5.0	11843.0	493.5		12530.0	507.0	36.0	1.0	5.0	11981.0	499.2	
16	12390.0	473.0	37.0	1.0	5.5	11873.5	494.7		12530.0	507.0	37.0	1.0	5.5	11979.5	499.1	
17	12360.0	475.0	37.0	1.0	5.5	11841.5	493.4		12540.0	506.0	37.0	1.0	5.5	11990.5	499.6	
18	10860.0	453.0	36.0	1.0	5.5	10364.5	431.9		12520.0	506.0	37.0	1.0	5.5	11970.5	498.8	
19	10980.0	463.0	34.0	1.0	5.5	10476.5	436.5		12560.0	507.0	38.0	1.0	5.5	12008.5	500.4	
20	12380.0	508.0	35.0	1.0	5.5	11830.5	492.9		12570.0	507.0	37.0	1.0	5.5	12019.5	500.8	
21	12380.0	439.0	42.0	1.5	5.5	11892.0	495.5		12450.0	506.0	43.0	1.5	5.5	11894.0	495.6	
22	12340.0	471.0	33.0	1.0	5.5	11829.5	492.9		12390.0	488.0	32.0	1.0	5.5	11863.5	494.3	
23	12360.0	473.0	37.0	1.0	5.0	11844.0	493.5		12310.0	472.0	36.0	1.0	5.0	11796.0	491.5	
24	12430.0	473.0	38.0	1.5	6.0	11911.5	496.3		12410.0	472.0	39.0	1.5	6.0	11891.5	495.5	
25	12660.0	477.0	38.0	1.0	5.5	12138.5	505.8		12610.0	476.0	38.0	1.0	5.5	12089.5	503.7	
26	12630.0	478.0	38.0	1.0	6.0	12107.0	504.5		12570.0	475.0	41.0	1.0	6.0	12047.0	502.0	
27	12600.0	477.0	38.0	1.0	6.0	12078.0	503.2		12540.0	473.0	39.0	1.0	6.0	12021.0	500.9	
28	12750.0	481.0	39.0	1.5	6.0	12222.5	509.3		12680.0	476.0	40.0	1.5	6.0	12156.5	506.5	
29	12580.0	472.0	37.0	1.0	6.0	12064.0	502.7		12490.0	472.0	39.0	1.0	6.0	11972.0	498.8	
30	12610.0	476.0	36.0	1.0	6.0	12091.0	503.8		12540.0	473.0	42.0	1.0	6.0	12018.0	500.8	
31	12630.0	476.0	38.0	1.0	6.0	12109.0	504.5		12530.0	474.0	41.0	1.0	6.0	12008.0	500.3	

MONTHLY TOTALS - UNIT 1

Gross Generation: 384,250.0 MWhr
 Total Station Service: 16,358.5 MWhr
 Net Generation: 367,891.5 MWhr
 Average Daily Power: 494.5 MWe

MONTHLY TOTALS - UNIT 2

Gross Generation: 388,540.0 MWhr
 Total Station Service: 16,739.5 MWhr
 Net Generation: 371,800.5 MWhr
 Average Daily Power: 499.7 MWe

Shift Operation Data

December, 2001

		Unit 1				Unit2							
Day	Hrs	Gen	X02	X04	Gen	X02	X04	X08	X27	G05 Gen	G05 Aux		
1	24	17066.0	79812.0	23041.0	35279.0	66291.0	58963.0	6264.0	9779.0	5679.0	5447.0		
2	24	18346.0	80322.0	23075.0	36567.0	66800.0	58999.0	6266.0	9789.0	5679.0	5458.0		
3	24	19606.0	80831.0	23112.0	37830.0	67309.0	59035.0	6268.0	9800.0	5679.0	5466.0		
4	24	20861.0	81340.0	23148.0	39084.0	67816.0	59071.0	6270.0	9811.0	5679.0	5473.0		
5	24	22108.0	81848.0	23183.0	40335.0	68323.0	59108.0	6272.0	9821.0	5679.0	5479.0		
6	24	23356.0	82356.0	23219.0	41588.0	68831.0	59145.0	6274.0	9831.0	5679.0	5489.0		
7	24	24603.0	82864.0	23255.0	42833.0	69339.0	59183.0	6276.0	9842.0	5679.0	5500.0		
8	24	25851.0	83372.0	23291.0	44086.0	69846.0	59219.0	6278.0	9852.0	5679.0	5511.0		
9	24	27100.0	83881.0	23325.0	45339.0	70355.0	59258.0	6281.0	9863.0	5679.0	5529.0		
10	24	28344.0	84383.0	23360.0	46592.0	70862.0	59296.0	6282.0	9874.0	5679.0	5535.0		
11	24	29581.0	84859.0	23397.0	47843.0	71364.0	59333.0	6285.0	9885.0	5679.0	5546.0		
12	24	30816.0	85333.0	23435.0	49070.0	71837.0	59372.0	6286.0	9895.0	5679.0	5555.0		
13	24	32047.0	85807.0	23471.0	50316.0	72338.0	59410.0	6288.0	9907.0	5679.0	5566.0		
14	24	33281.0	86282.0	23519.0	51569.0	72846.0	59449.0	6290.0	9919.0	5679.0	5580.0		
15	24	34516.0	86756.0	23546.0	52822.0	73353.0	59485.0	6292.0	9929.0	5679.0	5592.0		
16	24	35755.0	87229.0	23583.0	54075.0	73860.0	59522.0	6294.0	9940.0	5679.0	5603.0		
17	24	36991.0	87704.0	23620.0	55329.0	74366.0	59559.0	6296.0	9951.0	5679.0	5614.0		
18	24	38077.0	88157.0	23656.0	56581.0	74872.0	59596.0	6298.0	9962.0	5679.0	5624.0		
19	24	39175.0	88620.0	23690.0	57837.0	75379.0	59634.0	6300.0	9973.0	5683.0	5638.0		
20	24	40413.0	89128.0	23725.0	59094.0	75886.0	59671.0	6302.0	9984.0	5683.0	5649.0		
21	24	41651.0	89567.0	23767.0	60339.0	76392.0	59714.0	6305.0	9995.0	5683.0	5670.0		
22	24	42885.0	90038.0	23800.0	61578.0	76880.0	59746.0	6307.0	3.0	5683.0	5682.0		
23	24	44121.0	90511.0	23837.0	62809.0	77352.0	59782.0	6309.0	13.0	5683.0	5696.0		
24	24	45364.0	90984.0	23875.0	64050.0	77824.0	59821.0	6312.0	25.0	5683.0	5713.0		
25	24	46630.0	91461.0	23913.0	65311.0	78300.0	59859.0	6314.0	36.0	5683.0	5729.0		
26	24	47893.0	91939.0	23951.0	66568.0	78775.0	59900.0	6316.0	48.0	5683.0	5746.0		
27	24	49153.0	92416.0	23989.0	67822.0	79248.0	59939.0	6318.0	60.0	5683.0	5762.0		
28	24	50428.0	92897.0	24028.0	69090.0	79724.0	59979.0	6321.0	72.0	5683.0	5779.0		
29	24	51686.0	93369.0	24065.0	70339.0	80196.0	60018.0	6323.0	84.0	5683.0	5796.0		
30	24	52947.0	93845.0	24101.0	71593.0	80669.0	60060.0	6325.0	96.0	5683.0	5815.0		
31	24	54210.0	94321.0	24139.0	72846.0	81143.0	60101.0	6327.0	108.0	5683.0	5832.0		

Kim Locke

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

BURNUP DATA IN MWD/MTU

	THIS PERIOD	TOTAL CYCLE 27	TOTAL
CYCLE AVERAGE	1035.	7257.	27694.
REGION AVERAGE			
126B	368.	2512.	38498.
127A	313.	2099.	43481.
127B	720.	4974.	44915.
128A	1223.	8702.	30619.
128B	1328.	9486.	29412.
129A	1395.	9638.	9638.
129B	1236.	8623.	8623.
CORE MWTHR	1097860.	7697781.	29378180.
DAYS IN PERIOD/CYCLE	31	232	
POWER FACTOR	97.2%	91.0%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	15803.	15264.	* 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 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.
BURNUP FOR CYCLE 27 (MWD/MTU)	16285.	16200.	
REMAINING EFFECTIVE FULL POWER DAYS	262.8	260.3	
FRACTION OF CYCLE LIFE EXPENDED	44.6%	44.8%	

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	10/ 2/2002	10/17/2002	11/ 3/2002	11/22/2002	12/14/2002	1/ 7/2003	2/ 5/2003
DESIGN BURNUP DATE	9/20/2002	10/ 4/2002	10/19/2002	11/ 6/2002	11/25/2002	12/17/2002	1/11/2003	2/ 9/2003

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

BURNUP DATA IN MWD/MTU

	THIS PERIOD	TOTAL CYCLE 25	TOTAL
CYCLE AVERAGE	1035.	12512.	31668.
REGION AVERAGE			
223D	329.	3636.	47394.
224A	292.	3238.	38543.
225A	684.	8057.	37099.
225B	425.	4856.	42524.
226A	1103.	13330.	41540.
226B	1252.	15460.	39038.
227A	1337.	16118.	16118.
227B	1165.	14167.	14167.
CORE MWTHR	1105743.	13361524.	33817351.
DAYS IN PERIOD/CYCLE	31	380	
POWER FACTOR	98.0%	96.5%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	15922.	15871.	* 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	121.5	121.5	THE CORE AVERAGE BURNUP PROJECTED AT TEN PPM BORON
FRACTION OF CYCLE LIFE EXPENDED	75.1%	75.1%	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/ 2/2002	5/ 8/2002	5/16/2002	5/23/2002	6/ 1/2002	6/12/2002	6/23/2002	7/ 6/2002
DESIGN BURNUP DATE	5/ 2/2002	5/ 8/2002	5/16/2002	5/23/2002	6/ 1/2002	6/12/2002	6/23/2002	7/ 6/2002