



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 2002-0014

GL 97-02

February 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 January 2002.

Sincerely,

T. J. Webb
Licensing Director

KMD

Attachment

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

IE24

ATTACHMENT 1

Letter from Thomas J. Webb (NMC)

To

Document Control Desk (NRC)

Dated

February 15, 2002

Re: Monthly Operating Report – January 2002

OPERATING DATA REPORT

DOCKET NO. 50-266

DATE: 02/01/02

COMPLETED BY: Kim M. Duescher

TELEPHONE: 920-755-6,862

OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 1
2. REPORTING PERIOD: January - 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:
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	744.0	273,839.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	744.0	224,353.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	667.3
14. HOURS GENERATOR ONLINE	744.0	744.0	220,838.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	846.9
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,128,527.0	1,128,527.0	315,130,978.0
17. GROSS ELECTRICAL ENERGY GENERATED	392,210.0	392,210.0	106,934,310.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	376,066.5	376,066.5	101,951,586.5
19. UNIT SERVICE FACTOR	100.0%	100.0%	80.6%
20. UNIT AVAILABILITY FACTOR	100.0%	100.0%	81.0%
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.1%	99.1%	76.1%
22. UNIT CAPACITY FACTOR (USING DER NET)	98.1%	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

APPENDIX B
UNIT SHUTDOWNS

DOCKET NO. 50-266
UNIT NAME: Point Beach, Unit 1
DATE: 02/04/02
COMPLETED BY: Kim M. Duescher
TELEPHONE: 755-6862

REPORTING PERIOD: January 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 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 JANUARY - 2002

DOCKET NO. 50-266
UNIT NAME: Point Beach, Unit 1
DATE: 02/01/02
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>505</u>	11	<u>505</u>	21	<u>506</u>
2	<u>505</u>	12	<u>505</u>	22	<u>506</u>
3	<u>505</u>	13	<u>504</u>	23	<u>507</u>
4	<u>505</u>	14	<u>506</u>	24	<u>505</u>
5	<u>504</u>	15	<u>506</u>	25	<u>506</u>
6	<u>504</u>	16	<u>505</u>	26	<u>508</u>
7	<u>504</u>	17	<u>503</u>	27	<u>507</u>
8	<u>506</u>	18	<u>503</u>	28	<u>508</u>
9	<u>505</u>	19	<u>505</u>	29	<u>507</u>
10	<u>504</u>	20	<u>505</u>	30	<u>507</u>
				31	<u>507</u>

OPERATING DATA REPORT

DOCKET NO. 50-301

DATE: 02/01/02

COMPLETED BY: Kim M. Duescher

TELEPHONE: 920-755-6,862

OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT - UNIT 2
2. REPORTING PERIOD: January - 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): N/A
10. REASONS FOR RESTRICTIONS, (IF ANY):

NOTES

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.0	744.0	258,624.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	744.0	218,525.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	233.9
14. HOURS GENERATOR ONLINE	744.0	744.0	215,598.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	302.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,128,657.0	1,128,657.0	311,177,074.0
17. GROSS ELECTRICAL ENERGY GENERATED	391,090.0	391,090.0	106,119,130.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	374,962.5	374,962.5	101,158,469.5
19. UNIT SERVICE FACTOR	100.0%	100.0%	83.4%
20. UNIT AVAILABILITY FACTOR	100.0%	100.0%	83.5%
21. UNIT CAPACITY FACTOR (USING MDC NET)	98.4%	98.4%	79.8%
22. UNIT CAPACITY FACTOR (USING DER NET)	97.9%	97.9%	78.4%
23. UNIT FORCED OUTAGE RATE	0.0%	0.0%	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: 02/04/02
COMPLETED BY: Kim M. Duescher
TELEPHONE: 755-6862

REPORTING PERIOD: January 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 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 JANUARY - 2002

DOCKET NO. 50-301
UNIT NAME: Point Beach, Unit 2
DATE: 02/01/02
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>507</u>	11	<u>504</u>	21	<u>504</u>
2	<u>499</u>	12	<u>504</u>	22	<u>510</u>
3	<u>502</u>	13	<u>503</u>	23	<u>501</u>
4	<u>502</u>	14	<u>505</u>	24	<u>504</u>
5	<u>503</u>	15	<u>504</u>	25	<u>505</u>
6	<u>503</u>	16	<u>504</u>	26	<u>506</u>
7	<u>503</u>	17	<u>501</u>	27	<u>505</u>
8	<u>505</u>	18	<u>502</u>	28	<u>506</u>
9	<u>504</u>	19	<u>504</u>	29	<u>505</u>
10	<u>503</u>	20	<u>504</u>	30	<u>506</u>
				31	<u>505</u>

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

<u>ELECTRICAL</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
GROSS GENERATION	MWH	392,210.0	392,210.0	106,934,310.0
TOTAL STATION SERVICE	MWH	16,143.5	16,143.5	4,982,723.5
NET OUTPUT	MWH	376,066.5	376,066.5	101,951,586.5
AVG. GROSS GENERATION FOR MONTH	MWH	527.2	527.2	390.5
AVG. GROSS GENERATION RUNNING	MWH	527.2	527.2	484.2
TOTAL STATION SERVICE/GROSS GEN.	%	4.1%	4.1%	4.7%
HOURS OF GENERATION	HRS	744.0	744.0	220,838.0

<u>PLANT PERFORMANCE</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
NET PLANT EFFICIENCY	%	33.32%	33.32%	32.35%
NET PLANT HEAT RATE	BTU/KWH	10,241.2	10,241.2	10,548.8
NUMBER OF DAYS OF OPERATION	DAYS	31	31	10,083
UNIT NET CAPACITY FACTOR	%	99.1%	99.1%	76.1%
UNIT SERVICE FACTOR	%	100.0%	100.0%	80.6%
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	744.0	744.0	224,353.8
TOTAL HOURS POSSIBLE	HRS	744.0	744.0	273,839.0
INADVERTANT REACTOR TRIPS		0	0	57
DURATION OF REACTOR DOWN TIME	HRS	0.0	0.0	49,569.2
REACTOR CAPACITY FACTOR	%	99.9%	99.9%	75.8%
REACTOR SERVICE FACTOR	%	100.0%	100.0%	81.9%
THERMAL POWER GENERATED	MWTHR	1,128,527.0	1,128,527.0	315,130,978.0

THERMAL POWER GENERATED THIS FUEL CYCLE MWTHR 8,826,308.0

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

<u>ELECTRICAL</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
GROSS GENERATION	MWH	391,090.0	391,090.0	106,119,130.0
TOTAL STATION SERVICE	MWH	16,127.5	16,127.5	4,960,660.5
NET OUTPUT	MWH	374,962.5	374,962.5	101,158,469.5
AVG. GROSS GENERATION FOR MONTH	MWH	525.7	525.7	410.3
AVG. GROSS GENERATION RUNNING	MWH	525.7	525.7	492.2
TOTAL STATION SERVICE/GROSS GEN.	%	4.1%	4.1%	4.7%
HOURS OF GENERATION	HRS	744.0	744.0	215,598.2

<u>PLANT PERFORMANCE</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
NET PLANT EFFICIENCY	%	33.22%	33.22%	32.51%
NET PLANT HEAT RATE	BTU/KWH	10,272.6	10,272.6	10,498.1
NUMBER OF DAYS OF OPERATION	DAYS	31	31	9,121
UNIT NET CAPACITY FACTOR	%	98.4%	98.4%	79.8%
UNIT SERVICE FACTOR	%	100.0%	100.0%	83.4%
SCHEDULED OUTAGES		0	0	92
FORCED OUTAGES		0	0	58
FORCED OUTAGE HOURS	HRS	0.0	0.0	4,829.3
UNIT FORCED OUTAGE RATE	%	0.0%	0.0%	2.2%

<u>NUCLEAR</u>	<u>UNITS</u>	<u>MONTH</u>	<u>YEAR</u>	<u>CUMULATIVE</u>
HOURS CRITICAL	HRS	744.0	744.0	218,525.6
TOTAL HOURS POSSIBLE	HRS	744.0	744.0	258,624.0
INADVERTANT REACTOR TRIPS		0	0	50
DURATION OF REACTOR DOWN TIME	HRS	0.0	0.0	40,098.4
REACTOR CAPACITY FACTOR	%	99.9%	99.9%	79.3%
REACTOR SERVICE FACTOR	%	100.0%	100.0%	84.5%
THERMAL POWER GENERATED	MWTHR	1,128,657.0	1,128,657.0	311,177,074.0

THERMAL POWER GENERATED THIS FUEL CYCLE MWTHR 14,490,181.0

POINT BEACH SHIFT OPERATIONAL DATA SUMMARY

January, 2002

DAY	Unit 1							Unit 2						
	Gen	X02	X04	X08	X27	Net	MW hr Avg MWe	Gen	X02	X04	X08	X27	Net	MW hr Avg MWe
1	12650.0	476.0	39.0	1.0	6.0	12128.0	505.3	12700.0	473.0	41.0	1.0	6.0	12179.0	507.5
2	12650.0	478.0	37.0	1.0	6.0	12128.0	505.3	12500.0	474.0	42.0	1.0	6.0	11977.0	499.0
3	12650.0	478.0	38.0	1.0	6.5	12126.5	505.3	12570.0	473.0	40.0	1.0	6.5	12049.5	502.1
4	12650.0	479.0	38.0	1.5	6.0	12125.5	505.2	12580.0	474.0	39.0	1.5	6.0	12059.5	502.5
5	12610.0	477.0	37.0	0.5	5.5	12090.0	503.8	12590.0	475.0	38.0	0.5	5.5	12071.0	503.0
6	12620.0	476.0	36.0	1.0	5.5	12101.5	504.2	12590.0	482.0	38.0	1.0	5.5	12063.5	502.6
7	12630.0	477.0	39.0	1.0	6.0	12107.0	504.5	12580.0	463.0	37.0	1.0	6.0	12073.0	503.0
8	12670.0	476.0	38.0	1.0	5.5	12149.5	506.2	12640.0	473.0	39.0	1.0	5.5	12121.5	505.1
9	12650.0	476.0	38.0	1.0	5.5	12129.5	505.4	12610.0	474.0	36.0	1.0	5.5	12093.5	503.9
10	12620.0	476.0	37.0	1.0	5.0	12101.0	504.2	12580.0	473.0	37.0	1.0	5.0	12064.0	502.7
11	12640.0	476.0	38.0	1.0	5.5	12119.5	505.0	12610.0	473.0	37.0	1.0	5.5	12093.5	503.9
12	12640.0	477.0	37.0	1.0	5.5	12119.5	505.0	12620.0	473.0	36.0	1.0	5.5	12104.5	504.4
13	12620.0	476.0	38.0	1.0	5.0	12100.0	504.2	12590.0	473.0	37.0	1.0	5.0	12074.0	503.1
14	12670.0	479.0	38.0	1.0	5.5	12146.5	506.1	12640.0	474.0	37.0	1.0	5.5	12122.5	505.1
15	12670.0	478.0	37.0	1.0	6.0	12148.0	506.2	12620.0	475.0	37.0	1.0	6.0	12101.0	504.2
16	12640.0	481.0	36.0	1.0	5.5	12116.5	504.9	12610.0	475.0	39.0	1.0	5.5	12089.5	503.7
17	12580.0	479.0	33.0	1.5	6.5	12060.0	502.5	12560.0	474.0	44.0	1.5	6.5	12034.0	501.4
18	12590.0	482.0	34.0	1.0	6.5	12066.5	502.8	12580.0	476.0	45.0	1.0	6.5	12051.5	502.1
19	12630.0	479.0	34.0	1.0	6.0	12110.0	504.6	12610.0	474.0	43.0	1.0	6.0	12086.0	503.6
20	12640.0	479.0	32.0	1.0	5.5	12122.5	505.1	12620.0	476.0	43.0	1.0	5.5	12094.5	503.9
21	12660.0	480.0	31.0	1.0	6.0	12142.0	505.9	12630.0	477.0	42.0	1.0	6.0	12104.0	504.3
22	12660.0	479.0	33.0	1.0	5.5	12141.5	505.9	12760.0	476.0	42.0	1.0	5.5	12235.5	509.8
23	12680.0	477.0	32.0	0.5	5.5	12165.0	506.9	12550.0	476.0	39.0	0.5	5.5	12029.0	501.2
24	12640.0	480.0	33.0	1.0	6.0	12120.0	505.0	12610.0	476.0	43.0	1.0	6.0	12084.0	503.5
25	12670.0	479.0	34.0	1.5	5.5	12150.0	506.2	12650.0	476.0	40.0	1.5	5.5	12127.0	505.3
26	12700.0	476.0	36.0	0.5	5.0	12182.5	507.6	12660.0	473.0	46.0	0.5	5.0	12135.5	505.6
27	12690.0	476.0	33.0	1.0	5.0	12175.0	507.3	12620.0	473.0	26.0	1.0	5.0	12115.0	504.8
28	12710.0	479.0	37.0	0.5	5.5	12188.0	507.8	12670.0	476.0	36.0	0.5	5.5	12152.0	506.3
29	12700.0	480.0	38.0	1.0	6.0	12175.0	507.3	12660.0	486.0	38.0	1.0	6.0	12129.0	505.4
30	12690.0	480.0	37.0	1.5	6.5	12165.0	506.9	12650.0	467.0	38.0	1.5	6.5	12137.0	505.7
31	12690.0	480.0	37.0	0.5	5.5	12167.0	507.0	12630.0	475.0	37.0	0.5	5.5	12112.0	504.7

MONTHLY TOTALS - UNIT 1

Gross Generation: 392,210.0 MW hr
Total Station Service: 16,143.5 MW hr
Net Generation: 376,066.5 MW hr
Average Daily Power: 505.5 MWe

MONTHLY TOTALS - UNIT 2

Gross Generation: 391,090.0 MW hr
Total Station Service: 16,127.5 MW hr
Net Generation: 374,962.5 MW hr
Average Daily Power: 504.0 MWe

Kim Locke

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

BURNUP DATA IN MWD/MTU

	THIS PERIOD	TOTAL CYCLE 27	TOTAL
CYCLE AVERAGE	1064.	8320.	28758.
REGION AVERAGE			
126B	384.	2896.	38882.
127A	327.	2426.	43808.
127B	746.	5719.	45661.
128A	1253.	9955.	31872.
128B	1359.	10845.	30771.
129A	1438.	11076.	11076.
129B	1268.	9891.	9891.
CORE MWTHR	1128527.	8826308.	30506707.
DAYS IN PERIOD/CYCLE	31	263	
POWER FACTOR	99.9%	92.1%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	16042.	15439.	* 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	231.8	229.4	
FRACTION OF CYCLE LIFE EXPENDED	51.1%	51.4%	

	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	9/30/2002	10/13/2002	10/28/2002	11/14/2002	12/ 3/2002	12/25/2002	1/19/2003
DESIGN BURNUP DATE	9/20/2002	10/ 3/2002	10/16/2002	10/31/2002	11/17/2002	12/ 7/2002	12/29/2002	1/23/2003

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

BURNUP DATA IN MWD/MTU

	THIS PERIOD	TOTAL CYCLE 25	TOTAL
CYCLE AVERAGE	1057.	13569.	32725.
REGION AVERAGE			
223D	341.	3976.	47735.
224A	303.	3541.	38846.
225A	703.	8760.	37802.
225B	440.	5295.	42963.
226A	1127.	14456.	42667.
226B	1277.	16736.	40315.
227A	1360.	17479.	17479.
227B	1187.	15355.	15355.
CORE MWTHR	1128657.	14490181.	34946008.
DAYS IN PERIOD/CYCLE	31	411	
POWER FACTOR	100.0%	96.7%	* BASED ON NUMBER OF DAYS IN PERIOD OR CYCLE.
PROJECTED EOL BURNUP	15992.	15913.	* 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	90.6	90.6	
FRACTION OF CYCLE LIFE EXPENDED	81.4%	81.4%	

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/ 7/2002	5/12/2002	5/18/2002	5/25/2002	6/ 1/2002	6/10/2002	6/20/2002
DESIGN BURNUP DATE	5/ 2/2002	5/ 7/2002	5/12/2002	5/18/2002	5/25/2002	6/ 1/2002	6/10/2002	6/20/2002

Shift Operation Data

January, 2002

		Unit 1			Unit2						
Day	Hrs	Gen	X02	X04	Gen	X02	X04	X08	X27	G05 Gen	G05 Aux
1	24	55475.0	94797.0	24178.0	74116.0	81616.0	60142.0	6329.0	120.0	5683.0	5849.0
2	24	56740.0	95275.0	24215.0	75366.0	82090.0	60184.0	6331.0	132.0	5683.0	5865.0
3	24	58005.0	95753.0	24253.0	76623.0	82563.0	60224.0	6333.0	145.0	5683.0	5882.0
4	24	59270.0	96232.0	24291.0	77881.0	83037.0	60263.0	6336.0	157.0	5683.0	5896.0
5	24	60531.0	96709.0	24328.0	79140.0	83512.0	60301.0	6337.0	168.0	5683.0	5909.0
6	24	61793.0	97185.0	24364.0	80399.0	83994.0	60339.0	6339.0	179.0	5683.0	5925.0
7	24	63056.0	97662.0	24403.0	81657.0	84457.0	60376.0	6341.0	191.0	5683.0	5940.0
8	24	64323.0	98138.0	24441.0	82921.0	84930.0	60415.0	6343.0	202.0	5683.0	5953.0
9	24	65588.0	98614.0	24479.0	84182.0	85404.0	60451.0	6345.0	213.0	5683.0	5963.0
10	24	66850.0	99090.0	24516.0	85440.0	85877.0	60488.0	6347.0	223.0	5683.0	5975.0
11	24	68114.0	99566.0	24554.0	86701.0	86350.0	60525.0	6349.0	234.0	5683.0	5988.0
12	24	69378.0	43.0	24591.0	87963.0	86823.0	60561.0	6351.0	245.0	5683.0	6001.0
13	24	70640.0	519.0	24629.0	89222.0	87296.0	60598.0	6353.0	255.0	5683.0	6015.0
14	24	71907.0	998.0	24667.0	90486.0	87770.0	60635.0	6355.0	266.0	5683.0	6030.0
15	24	73174.0	1476.0	24704.0	91748.0	88245.0	60672.0	6357.0	278.0	5683.0	6044.0
16	24	74438.0	1957.0	24740.0	93009.0	88720.0	60711.0	6359.0	289.0	5686.0	6059.0
17	24	75696.0	2436.0	24773.0	94265.0	89194.0	60755.0	6362.0	302.0	5686.0	6077.0
18	24	76955.0	2918.0	24807.0	95523.0	89670.0	60800.0	6364.0	315.0	5686.0	6099.0
19	24	78218.0	3397.0	24841.0	96784.0	90144.0	60843.0	6366.0	327.0	5686.0	6118.0
20	24	79482.0	3876.0	24873.0	98046.0	90620.0	60886.0	6368.0	338.0	5686.0	6133.0
21	24	80748.0	4356.0	24904.0	99309.0	91097.0	60928.0	6370.0	350.0	5686.0	6146.0
22	24	82014.0	4835.0	24937.0	585.0	91573.0	60970.0	6372.0	361.0	5686.0	6160.0
23	24	83282.0	5312.0	24969.0	1840.0	92049.0	61009.0	6373.0	372.0	5686.0	6172.0
24	24	84546.0	5792.0	25002.0	3101.0	92525.0	61052.0	6375.0	384.0	5686.0	6186.0
25	24	85813.0	6271.0	25036.0	4366.0	93001.0	61092.0	6378.0	395.0	5686.0	6197.0
26	24	87083.0	6747.0	25072.0	5632.0	93474.0	61138.0	6379.0	405.0	5686.0	6207.0
27	24	88352.0	7223.0	25105.0	6894.0	93947.0	61164.0	6381.0	415.0	5686.0	6218.0
28	24	89623.0	7702.0	25142.0	8161.0	94423.0	61200.0	6382.0	426.0	5686.0	6232.0
29	24	90893.0	8182.0	25180.0	9427.0	94909.0	61238.0	6384.0	438.0	5686.0	6249.0
30	24	92162.0	8662.0	25217.0	10692.0	95376.0	61276.0	6387.0	451.0	5686.0	6264.0
31	24	93431.0	9142.0	25254.0	11955.0	95851.0	61313.0	6388.0	462.0	5686.0	6279.0