

OPERATING DATA REPORT

DOCKET NO. 50-301

DATE August 5, 1981

COMPLETED BY C. W. FAY

TELEPHONE 414 277 2811

OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT UNIT 2
2. REPORTING PERIOD: JULY 1981
3. LICENSED THERMAL POWER (MWT): 1518.
4. NAMEPLATE RATING (GROSS MWE): 523.8
5. DESIGN ELECTRICAL RATING (NET MWE): 497.
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 519.
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 495.
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:
NOT APPLICABLE
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE): NOT APPLICABLE
10. REASONS FOR RESTRICTIONS, (IF ANY): NOT APPLICABLE

	THIS MONTH	YR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	5,087	78,888
12. NUMBER OF HOURS REACTOR IN CRITICAL	744.0	4,189.9	70,739.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	186.3
14. HOURS GENERATOR ON LINE	744.0	4,166.2	69,464.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	7.3	131.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,112,509	6,142,771	94,932,517
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	378,190	2,085,100	32,208,950
18. NET ELECTRICAL ENERGY GENERATED (MWH)	361,050	1,988,660	30,652,081
19. UNIT SERVICE FACTOR	100.0	81.9	88.1
20. UNIT AVAILABILITY FACTOR	100.0	82.0	88.2
21. UNIT CAPACITY FACTOR (USING MDC NET)	98.0	79.0	79.2
22. UNIT CAPACITY FACTOR (USING DER NET)	97.6	78.7	78.2
23. UNIT FORCED OUTAGE RATE	0.0	0.0	1.7
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: NOT SHUTDOWN

DATA REPORTED AND FACTORS CALCULATED AS REQUESTED IN NRC LETTER DATED SEPTEMBER 22, 1977

OPERATING DATA REPORT

DOCKET NO. 50-266

DATE August 5, 1981

COMPLETED BY C. W. FAY

TELEPHONE 414 277 2811

OPERATING STATUS

1. UNIT NAME: POINT BEACH NUCLEAR PLANT UNIT 1
2. REPORTING PERIOD: JULY 1981
3. LICENSED THERMAL POWER (MWT): 1518.
4. NAMEPLATE RATING (GROSS MWE): 523.8
5. DESIGN ELECTRICAL RATING (NET MWE): 497.
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 519.
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 495.
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE): 445.0
10. REASONS FOR RESTRICTIONS, ~~CODE XXXX~~: Maximum dependable capacity reduced because of a self-imposed hot leg temperature limitation in an attempt to limit steam generator tube corrosion.

	THIS MONTH	YR TO DATE	CUMULATIVE
11. HOURS IN REPORTING	744	5,087	94,103
12. NUMBER OF HOURS REACTOR WAS CRITICAL	367.5	4,705.9	78,140.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.6	606.3
14. HOURS GENERATOR ON LINE	360.0	4,691.0	75,827.9
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	764.3
16. GROSS THERMAL ENERGY GENERATED (MWH)	467,103	5,689,458	104,527,902
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	150,750	1,844,770	35,104,490
18. NET ELECTRICAL ENERGY GENERATED (MWH)	141,229	1,747,183	33,414,469
19. UNIT SERVICE FACTOR	48.4	92.2	80.6
20. UNIT AVAILABILITY FACTOR	48.4	92.2	81.4
21. UNIT CAPACITY FACTOR (USING MDC NET)	38.3	69.4	72.8
22. UNIT CAPACITY FACTOR (USING DEP T)	38.2	69.1	71.4
23. UNIT FORCED OUTAGE RATE	0.0	0.3	3.1
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

Refueling outage October 9, 1981, expected to last approximately eight weeks.

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: NOT SHUTDOWN

DATA REPORTED AND FACTORS CALCULATED AS REQUESTED IN NRC LETTER DATED SEPTEMBER 22, 1977

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-266

UNIT NAME Point Beach Unit 1

DATE August 5, 1981

REPORT MONTH July, 1981

COMPLETED BY C. W. Fay

TELEPHONE 414/277-2811

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report No.	System Code ⁴	Component Code ⁵	Cause and Corrective Action To Prevent Recurrence
3	810704	S	384.0	B	1	81-008/01T-0	CB	HTEXCH	Steam generator eddy current and tube plugging was completed on July 11, 1981. A total of five tubes were plugged. Two tubes in the "A" steam generator, both with indications greater than 40% within the tubesheet area were plugged. Three tubes were plugged in the "B" steam generator, two with indications within the tubesheet area and ½" above the tubesheet. One indication within the tubesheet area was less than 40% and was plugged because it was located within one inch of the top of the tubesheet. The other two indications were greater than 40%

¹ F: Forced
S: Scheduled

² Reason:
A- Equipment Failure (explain)
B- Maintenance or Test
C- Refueling
D- Regulatory Restriction
E- Operator Training & License Exam
F- Administrative
G- Operational Error (explain)
H- Other (explain)

³ Method:
1- Manual
2- Manual Scram
3- Automatic Scram
4- Other (explain)

⁴ Exhibit G-Instructions for Preparation of Data Entry Sheets for LER File (NUREG-0161)

⁵ Exhibit I- Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-301

UNIT NAME Point Beach Unit 2DATE August 5, 1981REPORT MONTH July, 1981COMPLETED BY C. W. FayTELEPHONE 414/277-2811

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

¹ F: Forced
S: Scheduled

² Reason:
A- Equipment Failure (explain)
B- Maintenance or Test
C- Refueling
D- Regulatory Restriction
E- Operator Training & License Exam
F- Administrative
G- Operational Error (explain)
H- Other (explain)

³ Method:
1- Manual
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3- Automatic Scram
4- Other (explain)

⁴ Exhibit G-Instructions for Preparation of Data Entry Sheets for LER File (NUREG-0161)

⁵ Exhibit I- Same Source

DOCKET NO. 50-266

UNIT NAME Point Beach Unit 1

DATE August 5, 1981

COMPLETED BY C. W. Fay

TELEPHONE 414/277-2811

AVERAGE DAILY UNIT POWER LEVEL

MONTH July, 1981

<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>374</u>	11	<u>- 2</u>	21	<u>412</u>
2	<u>374</u>	12	<u>- 2</u>	22	<u>412</u>
3	<u>363</u>	13	<u>- 1</u>	23	<u>413</u>
4	<u>1</u>	14	<u>- 7</u>	24	<u>413</u>
5	<u>- 6</u>	15	<u>- 4</u>	25	<u>411</u>
6	<u>- 3</u>	16	<u>- 2</u>	26	<u>415</u>
7	<u>- 3</u>	17	<u>- 6</u>	27	<u>415</u>
8	<u>- 2</u>	18	<u>- 8</u>	28	<u>415</u>
9	<u>- 2</u>	19	<u>- 12</u>	29	<u>415</u>
10	<u>- 2</u>	20	<u>286</u>	30	<u>415</u>
				31	<u>409</u>

DOCKET NO. 50-301
UNIT NAME Point Beach Unit 2
DATE August 5, 1981
COMPLETED BY C. W. Fay
TELEPHONE 414/277-2811

AVERAGE DAILY UNIT POWER LEVEL

MONTH July, 1981

<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>492</u>	11	<u>494</u>	21	<u>485</u>
2	<u>491</u>	12	<u>491</u>	22	<u>484</u>
3	<u>478</u>	13	<u>490</u>	23	<u>482</u>
4	<u>493</u>	14	<u>489</u>	24	<u>482</u>
5	<u>492</u>	15	<u>486</u>	25	<u>484</u>
6	<u>467</u>	16	<u>487</u>	26	<u>476</u>
7	<u>493</u>	17	<u>491</u>	27	<u>470</u>
8	<u>486</u>	18	<u>481</u>	28	<u>476</u>
9	<u>492</u>	19	<u>489</u>	29	<u>474</u>
10	<u>491</u>	20	<u>485</u>	30	<u>479</u>
				31	<u>488</u>

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

Docket No. 50-266
Unit Name Point Beach Unit 1
Date August 5, 1981
Completed By C. W. Fay
Telephone 414-277-2811

Unit 1 operated at 390 MWe net until July 3, 1981 when at 2107 hours a load reduction was commenced for a unit shut-down for steam generator inspections. Unit 1 was off line at 0331 hours and the reactor was shut down at 0356 hours on July 4, 1981. Following completion of the steam generator inspection, the unit returned to line at 0328 hours on July 20, 1981. Based on the results of the steam generator eddy current and flushing, Unit 1 was returned to line with a hot leg temperature of 575°F. This hot leg temperature is higher than the unit had been operating at since December 1979, but still less than design. The unit is operated at a reduced temperature to reduce the steam generator corrosion rate. Unit 1 operated at 410 MWe net the remainder of the period with no load reductions.

Steam generator eddy current and tube plugging was completed on July 11, 1981. A total of five tubes were plugged. Two tubes in the "A" steam generator, both with indications greater than 40% within the tubesheet area, were plugged. Three tubes were plugged in the "B" steam generator, two with indications within the tubesheet area and one one-half inch above the tubesheet. One indication within the tubesheet area was less than 40% and was plugged because it was located within one inch of the top of the tubesheet. The other two indications were greater than 40%. Licensee Event Report No. 81-008/01T-0 has been filed on this event.

On July 14, 1981, during the Unit 1 check valve testing, valves 1-853 C&D (residual heat removal core deluge valves) were found leaking in excess of the acceptable criteria. Upon further investigation, it was discovered that the check valve discs were jammed in the full open position. This condition was caused by the disc retaining nut lock wire interfering with the valve body. It appears that this may be a generic design problem with six-inch "Velan" check valves. There are two other six-inch "velan" check valves installed in Unit 1 (1-853 A&B). These valves were also disassembled and found to function properly; however, as a preventive measure, the lock wires were replaced. The subject valves were repaired and returned to service at 2046 hours on July 16, 1981. The Event V check valve tests were rerun on these particular valves at 1645 hours on July 17, 1981 with satisfactory results. Licensee Event Report No. 81-010/01T-0 has been filed on this event.

On July 21, 1981, while performing bi-weekly test ICP 2.6, Safeguards System Logic Periodic Testing, Unit 1 test switch PC-950A failed. This switch is one of three which test steam line isolation logic for high containment pressure. The switch was replaced and the test was completed satisfactorily. A 30-day Licensee Event Report will be issued on this event.

On July 14, 1981, Bechtel informed Wisconsin Electric Power Company that their analysis relating to NRC IE Bulletin 80-11 indicates that the west control room masonry wall and the battery room masonry walls would exceed allowable limits during a safe shut-down earthquake. This event was reported in Licensee Event Report No. 81-009/01T-0.

Safety-related maintenance during this period included lock wire replacement on the residual heat removal core deluge valves following the Event V check valve test and steam generator tube plugging.

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

Docket No. 50-301
Unit Name Point Beach Unit 2
Date August 5, 1981
Completed By C. W. Fay
Telephone 414-277-2811

Unit 2 operated at 490 MWe net throughout the period with eight load reductions. Seven of these load reductions to an average of 429 MWe for an average duration of 3.5 hours each were at the direction of Power Supply for load following purposes. On July 6, 1981 at 0001 hours, load was reduced to 360 MWe net to accommodate Technical Specification turbine stop valve testing. There was no safety-related maintenance performed during the period.