8006150 443

OPERATING DATA REPORT

DOCKET NO. 50-409
DATE 5-5-80
COMPLETED BY L.S. Goodman
TELEPHONE 608-689-2331

OPERATING STATUS

1. Unit Name: LA CROSSE BOILING WATER REACTOR
2. Reporting Period: 0000, 80-01-04 to 2400,80-30-04
3. Licensed Thermal Power (MWt): 165
4. Nameplate Rating (Gross MWe): 65.3
5. Design Electrical Rating (Net MWe): 50
6. Maximum Dependable Capacity (Gross MWe): 50
7. Maximum Dependable Capacity (Net MWe): 48
8. If Changes Occur in Capacity Ratings (Items Number 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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	719	2,903	92,018
12. Number Of Hours Reactor Was Critical	212.3	2,338.4	60,143.9
13. Reactor Reserve Shutdown Hours	0	0	478
14. Hours Generator On-Line	137.4	2,246.9	55,251.7
15. Unit Reserve Shutdown Hours	0	0	79
16. Gross Thermal Energy Generated (MWH)	18,004	308,884	7,593,664
17. Gross Electrical Energy Generated (MWH)	5,177	91,020	2,290,152
18. Net Electrical Energy Generated (MWH)	4,447	85,291	2,118,026
19. Unit Service Factor	19.1	77.4	60.0
20. Unit Availability Factor	19.1	77.4	60.1
21. Unit Capacity Factor (Using MDC Net)	12.9	61.2	48.0
22. Unit Capacity Factor (Using DER Net)	12.4	58.8	46.0
23. Unit Forced Outage Rate	0	3.2	6.3

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
ESTIMATED REFUELING OUTAGE, AUGUST 18, 1980, 6 WEEKS

25. If Shut Down At End Of Report Period, Estimated Date of Startup: NA

26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-409
UNIT LACBWR
DATE 05-05-80
COMPLETED BY L.S. GOODMAN
TELEPHONE 608-689-2331

MONTH APRIL 1980

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	39	17	0
2	39	18	0
3	39	19	0
4	39	20	0
5	38	21	0
6	5	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	4
15	0	31	
16	0		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH APRIL 1980

DOCKET NO. 50-409
UNIT NAME LACBWR
DATE 5-5-80
COMPLETED BY L.S. GOODMAN
TELEPHONE 608-689-2331

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	Cause & Corrective Action to Prevent Recurrence
80-03	04-06-80	S	581.6	H	1	NA	ZZ	ZZZZZ	LACBWR was shut down for equipment installation required by NUREG-0578, including position indicators on relief valves and manual resets on containment isolations.

1
F: Forced
S: Scheduled

2
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)

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

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

5
Exhibit I - Same Source

(9/77)

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

APRIL 1980

At the onset of the April reporting period, power generation was continuing at 85% Reactor Rated Thermal Power (39 MWe-Net). This operating power level has been scheduled to extend core life to stretch optimum production until refueling becomes necessary.

On April 6, 1980, the reactor was shutdown for equipment installation required by NUREG-0578. The equipment installation required by NUREG-0578 consisted of position indicators for the safety relief valves and the addition of diverse parameter closure signals and manual resets on several containment isolation valves. Other major tasks completed during the outage included installation of a double check valve in the Fuel Element Storage Well drain line, repair of the 1A Forced Circulation Pump's seal and repair of one of the generator's H_2 seals. Class B and C Leakage Rate Testing was also performed.

The reactor was taken critical at 0012 on April 26, 1980. Over the next two days, training criticals were performed by the operators, the last one being conducted at 0307 on April 28th.

At 1921 on April 28th, during heatup, with the reactor at 0.5% power, a low water level scram occurred. When the 1A Reactor Feedwater Pump had been placed in AUTO at 1850, there had been too little demand on it and it backed down, so when the Main Steam Bypass Valve was opened to begin drawing steam to the turbine side, there was a reduction of water supply to compensate for the inventory being drawn off as steam. Therefore, water level began to slowly decrease and before feedwater input could be increased sufficiently with the feed pump on manual control, the reactor scrammed on low water level. The scram limits for water level are established within a narrow band of -12" to +19". The water level was increased to normal with the RFP and the HPCS pumps. The reactor was returned to critical at 2033.

At 2159, a partial reactor scram occurred at 25×10^{-4} % power due to a scram solenoid coil burning out on CRD No. 29. The scram solenoid and its power circuit fuse, which had also burnout out, were replaced and the reactor was returned to critical at 1223 on April 29th.

At 1337 on April 29th, the reactor scrammed when fuse 55-2, which is on the control power circuit, burned out due to a short circuit condition at Control Rod Drive Mechanism No. 1. The fuse was replaced and the reactor returned to critical at 1503.

NARRATIVE SUMMARY OF OPERATING EXPERIENCE - (Cont'd)

Power was escalated slowly in accordance with the rod control program. The turbine generator was synchronized to the DPC grid at 1315 on April 30th. Power escalation continued slowly, with 32% Reactor Rated Thermal Power (12 MWe-net) being achieved by the end of the day, which also marked the end of the reporting period.

Significant maintenance items performed during the April 1980 reporting period are indicated on the attached Instrument and Electrical Maintenance and Mechanical Maintenance listings.

INSTRUMENT AND ELECTRICAL MAINTENANCE

APRIL 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
NUCLEAR INSTRUMENTATION	PREVENTIVE	NA	TEST DUE	COMPLETED TESTS	COMPLETED TECH. SPEC. TESTS N-5 THRU N-9
NUCLEAR INSTRUMENTATION	PREVENTIVE MR 3080	OUTAGE 80-03	TEST DUE	COMPLETED TESTS	COMPLETED TUBE TESTING N-1 THRU N-6
SAFETY SYSTEM	PREVENTIVE	OUTAGE 80-03	TEST DUE	COMPLETED TESTS	COMPLETED SAFETY SYSTEM CH 1, 2, H_2O #3
D. C. POWER SYSTEMS	PREVENTIVE	OUTAGE 80-03	TEST DUE	COMPLETED TESTS	COMPLETED QUARTERLY BATTERY TEST
FIRE DETECTION	PREVENTIVE	OUTAGE 80-03	TEST DUE	COMPLETED TESTS	COMPLETED QUARTERLY FIRE DETECTOR TESTS
AC POWER 1C INVERTER	FACILITY CHANGE 78-80-1	OUTAGE 80-03	NEW EQUIPMENT REQUEST	COMPLETED INSTALLATION	ADDED ALARM FOR 1C INVERTER
DIESEL GENERATOR 1A FUEL PUMP	FACILITY CHANGE 78-80-2	OUTAGE 80-03	NEW EQUIPMENT REQUEST	COMPLETED INSTALLATION	ADDED FUEL PUMP SHUT-OFF SWITCH
ECC PUMP RUN METERS 1A, 1B	FACILITY CHANGE 79-24	OUTAGE 80-03	NEW EQUIPMENT REQUEST	COMPLETED INSTALLATION	ADDED ELAPSE TIME METERS
SAFETY RELIEF VALVES 1, 2 & 3	FACILITY CHANGE 64-80-1	OUTAGE 80-03	NEW EQUIPMENT REQUEST	COMPLETED INSTALLATION	ADDED INDICATION LIGHTS FOR VALVE CONDITION
FIRE ALARM SYSTEM FOR 1B DIESEL	FACILITY CHANGE 79-19	OUTAGE 80-03	NEW EQUIPMENT REQUEST	COMPLETED INSTALLATION	CHANGED POWER FROM 1B TO 1A BUS.
CONTAINMENT ISOLATION VALVES	FACILITY CHANGE 37-80-1	OUTAGE 80-03	NEW EQUIPMENT REQUEST	COMPLETED INSTALLATION	ADDED RESET AND SECOND CLOSE SIGNAL
REACTOR VENTILATION DAMPER VALVES	FACILITY CHANGE 79-25	OUTAGE 80-03	NEW EQUIPMENT REQUEST	COMPLETED INSTALLATION	ADDED RESET AND SECOND CLOSE SIGNAL
REACTOR VENTILATION	CORRECTIVE MR 3034	NA	NORMAL USAGE	DEFECTIVE BEARINGS	REPLACED MOTOR WITH SPARE

INSTRUMENT AND ELECTRICAL MAINTENANCE

APRIL 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
PURIFICATION RECORDER	CORRECTIVE MR 3033	NA	CONTAMINATED CONTACTS	INCORRECT INDICATION	CLEANED RECORDER SWITCH CONTACTS
SHUTDOWN CONDENSER INLET VALVE	CORRECTIVE MR 2947	OUTAGE 80-03	DEFECTIVE DETECTOR	INOPERATIVE INDICATION	REPLACED WITH SPARE UNIT
GENERATOR LUBE OIL SYSTEM	PREVENTIVE MR 2933	OUTAGE 80-03	TEST REQUEST	COMPLETED TESTS	TESTED ALARM CONTACTS FOR OIL LEVELS
RECOMBINER	CORRECTIVE MR 3032	OUTAGE 80-03	DEFECTIVE HEATER	INOPERATIVE HEATER	REPLACED HEATER
CONTROL ROD DRIVE UNIT 21	CORRECTIVE MR 2914	OUTAGE 80-03	UNKNOWN	INCORRECT INDICATION	CALIBRATED UNIT
TURBINE OIL SYSTEM	CORRECTIVE MR 2900	OUTAGE 80-03	NORMAL USAGE	DEFECTIVE SWITCH	REPLACED PRESSURE SWITCH
HYDROGEN RECOMBINER	PREVENTIVE MR 2953	OUTAGE 80-03	TEST REQUEST	COMPLETED TEST	CLEANED AND CALIBRATED ANALYZER
HYDROGEN RECOMBINER	PREVENTIVE MR 3048	OUTAGE 80-03	TEST REQUEST	COMPLETED TEST	CALIBRATED TEMPERATURE GAUGE
OFF GAS FLOW METER	PREVENTIVE MR 2988 MR 2904	OUTAGE 80-03	TEST REQUEST	COMPLETED TEST	CLEANED AND CHECKED FLOW CELL
CONDENSATE PUMP BREAKER	CORRECTIVE MR 3057	OUTAGE 80-03	NORMAL USAGE	ROLL PIN DISENGAGED	REPLACED ROLL PIN
NUCLEAR CHANNEL N-4 POWER SUPPLY	CORRECTIVE MR 3036, MR 3059 MR 3066	OUTAGE 80-03	DEFECTIVE TRANSFORMERS (2 NEW UNITS)	NO HIGH VOLTAGE	REPLACED WITH SPARE UNIT
STACK GAS MONITOR	CORRECTIVE MR 2853	OUTAGE 80-03	DEFECTIVE DIODES	HIGH VOLTAGE DRIFT	REPLACED DIODES

INSTRUMENT AND ELECTRICAL MAINTENANCE

APRIL 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
PURIFICATION STOP VALVE	CORRECTIVE MR 3063	OUTAGE 80-03	UNKNOWN	INCORRECT INDICATION	ADJUSTED LIMIT SWITCHES
REACTOR PLANT TEMPERATURE RECORDER	CORRECTIVE MR 3061	OUTAGE 80-03	NORMAL USAGE	INCORRECT PRINTING	ADJUSTED PRINT WHEEL
SECURITY SYSTEM	NEW EQUIPMENT MR 3074	OUTAGE 80-03	NEW EQUIPMENT	COMPLETED INSTALLATION	INSTALLED SWITCH IN COMMUNICATIONS ROOM
ELECTRICAL POWER DISTRIBUTION	CORRECTIVE MR 3089, MR 3050	R.O. 80-01	CRACKED GLANDS	LEAKING PENETRATIONS	REPLACED PENETRATION UNITS
DEMINERALIZED WATER STORAGE TANK	CORRECTIVE MR 3049	OUTAGE 80-03	NORMAL USAGE	DEFECTIVE CONTROL SWITCH	REPLACED SWITCH
FUEL OIL LEVEL GAUGE PUMP	CORRECTIVE MR 3041	OUTAGE 80-03	NORMAL USAGE	DEFECTIVE PUMP	REPLACED AIR PUMP
CONTROL ROD DRIVE SOLENOID #9	CORRECTIVE MR 3083	OUTAGE 80-03	NORMAL USAGE	DEFECTIVE SCRAM SOLENOID	REPLACED SOLENOID COIL
ALTERNATE CORE SPRAY KEY SWITCH	CORRECTIVE MR 3084	OUTAGE 80-03	DEFECTIVE PIN	KEY OPERATOR DEFECTIVE	REPLACED PIN IN LOCK MECHANISM
NUCLEAR INSTRUMENT RECORDER CH. N-4	CORRECTIVE MR 3092	OUTAGE 80-03	CONTAMINATED POT.	INCORRECT INDICATION	CLEANED AND ADJUSTED POT.
NUCLEAR POWER SUPPLY CH. N-4	CORRECTIVE MR 3091	OUTAGE 80-03	DEFECTIVE TRANSFORMER	NO HIGH VOLTAGE	REPLACED DEFECTIVE TRANSFORMER
F.C.P. 1A SEAL TEMPERATURE	CORRECTIVE MR 3094	OUTAGE 80-03	LOOSE WIRE	INCORRECT READING	TIGHTENED THERMOCOUPLE WIRE
RADIATION MONITOR	CORRECTIVE MR 3098	OUTAGE 80-03	INCORRECT SETTING	LOW ALARM INDICATION	RESET TO CORRECT INDICATION
F.C.P. 1A CONTROL SWITCH	CORRECTIVE MR 3102	OUTAGE 80-03	DEFECTIVE STOP PIN	SWITCH DEFECTIVE	REPLACED STOP PIN PLATE

INSTRUMENT AND ELECTRICAL MAINTENANCE

APRIL 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
MAKE-UP DEMINERALIZER	CORRECTIVE MR 3105	OUTAGE 80-03	MISALIGNED PROBE	INCORRECT INDICATION	STRAIGHTENED CAUSTIC PROBE
POWER DISTRIBUTION CONTROL SWITCH	CORRECTIVE MR 3107	OUTAGE 80-03	LOOSE STOP PIN	NO CORRECT STOP	REPLACED STOP PIN PLATE
RADIATION ENVIRONMENTAL MONITOR	CORRECTIVE MR 3087	OUTAGE 80-03	FILTER BLOCKED	MOTOR TRIP	CLEANED FILTER UNIT
CONTROL ROD DRIVE SOLENOID #29	CORRECTIVE MR 3110	OUTAGE 80-03	NORMAL USAGE	SHORTED SCRAM SOLENOID	REPLACED SOLENOID

MECHANICAL MAINTENANCE

APRIL 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
1-B SEAL WATER PUMP LPSW	CORRECTIVE MR 3031	NA	WORN BEARING	PUMP RAN HOT	REPLACED BEARINGS
1-A F.C.P. UPPER SEAL	CORRECTIVE MR 3040	OUTAGE 80-03	WORN SEAL	EXCESSIVE SEALING WATER	REPLACED UPPER SEALS AND MECHANICAL SEAL
RECOMBINER CATALYST	PREVENTIVE MR 2951	OUTAGE 80-03	N/A	N/A	CLEANED
REACTOR GAUGE GLASS	CORRECTIVE MR 2678	OUTAGE 80-03	BLOWN GASKET	STEAM LEAK	REPLACED GASKETS, MICA AND GLASS
TURBINE GENERATOR HYDROGEN SEAL	CORRECTIVE MR 2969	OUTAGE 80-03	BROKEN "O" RING	HYDROGEN LEAK	NEW "O" RING AND LAPPED FACES
1-B SEAL INJECT PUMP SUCTION HEADER	CORRECTIVE MR 2935	OUTAGE 80-03	GASKETS	EXCESSIVE WATER	REPLACED GASKETS AND DISC
1-A CRD EFFLUENT PUMP	PREVENTIVE MR 3052	OUTAGE 80-03	N/A	N/A	PERFORMED PREVENTIVE MAINTENANCE AND PUT BACK IN SYSTEM
TURBINE OIL REGULATING VALVES 92-22-001 92-22-002	PREVENTIVE MR 2949	OUTAGE 80-03	N/A	N/A	CLEANED
TURBINE OIL SEAL OIL REGULATOR 92-22-003	PREVENTIVE MR 2949	OUTAGE 80-03	N/A	N/A	CLEANED
CCW SURGE TANK	FACILITY CHANGE #57-80-1 CHANGE 1	OUTAGE 80-03	N/A	N/A	INSTALLED ISOLATION VALVES & TEST CONNECTION, HYDRO
LPSW OUTLET VALVE #91-24-055	CORRECTIVE MR 3078	OUTAGE 80-03	STUCK	NOT BEING ABLE TO OPEN	DISASSEMBLED, CLEANED AND GREASED
FUEL STORAGE WELL DRAIN LINE	FACILITY CHANGE #79-20	OUTAGE 80-03	N/A	N/A	INSTALLED CHECK VALVES PREVENTING THE DRAINING OF STORAGE WELL

MECHANICAL MAINTENANCE

APRIL 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
EXHAUST VENT DAMPER #73-25-006	CORRECTIVE MR 3079	OUTAGE 80-03 LER 80-02	SEAL DAMAGE	AIR LEAK	REPLACED SEAT RING
SHUTDOWN CONDENSER VENT VALVE #62-25-013	CORRECTIVE MR 3075	OUTAGE 80-03 LER 80-04	DISC AND SEAT STUCK	COULD NOT OPERATE	DISASSEMBLED VALVE AND LAPPED DISC AND SEAT
CONDENSATE SYSTEM	FACILITY CHANGE #78-06	OUTAGE 80-03	N/A	N/A	IMPROVE CONTAINMENT ISOLATION
CONDENSATE RETURN ISOLATION VALVE #73-25-021	CORRECTIVE MR 3073	OUTAGE 80-03 LER 80-03	SEAL DAMAGE	LEAKED	REPLACED WITH COMPLETE NEW INTERNALS
PIPE HANGER BASE PLATE	FACILITY CHANGE #79-27	OUTAGE 80-03	N/A	N/A	INSTALLED NEW BASE PLATES
ACCUMULATOR NITROGEN SUPPLY VALVE #52-25-003	CORRECTIVE MR 3101	OUTAGE 80-03	BROKEN STEM & "O" RING	NITROGEN LEAK	INSTALLED NEW STEM AND "O" RING