

OPERATING DATA REPORT

DOCKET NO. 50-409
 DATE 07-07-80
 COMPLETED BY L.S. GOOD
 TELEPHONE 608-689-233

OPERATING STATUS

1. Unit Name: La Crosse Boiling Water Reactor
2. Reporting Period: 0000, 80-01-06 to 2400, 80-30-06
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

Notes

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): _____
 10. Reasons For Restrictions, If Any: _____
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	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	4,367	93,482
12. Number Of Hours Reactor Was Critical	539.5	3,621.9	61,427.4
13. Reactor Reserve Shutdown Hours	0	0	478
14. Hours Generator On-Line	502.1	3,493.0	56,497.8
15. Unit Reserve Shutdown Hours	0	0	79
16. Gross Thermal Energy Generated (MWH)	65,131.2	469,525.7	7,754,306.2
17. Gross Electrical Energy Generated (MWH)	18,839	137,569	2,336,701
18. Net Electrical Energy Generated (MWH)	17,357	128,587	2,161,322
19. Unit Service Factor	69.7	80.0	60.4
20. Unit Availability Factor	69.7	80.0	60.5
21. Unit Capacity Factor (Using MDC Net)	50.2	61.3	48.2
22. Unit Capacity Factor (Using DER Net)	48.2	58.9	42.2
23. Unit Forced Outage Rate	27.8	7.1	6.4

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
ESTIMATED REFUELING OUTAGE, OCTOBER 10, 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	_____	_____

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

JUNE 1980

At the onset of the June 1980 reporting period, power generation was continuing at 85% Reactor Rated Thermal Power (38 MWe-Net). This operating level has been scheduled to extend core life to stretch optimum production until refueling becomes necessary.

On June 2, 1980, the reactor was shutdown in preparation for operator license examinations, which were conducted on June 3rd. The reactor was first taken critical at 0924 and the last test critical was achieved at 1139. At 2110 on June 3rd, the turbine-generator was resynchronized to the DPC grid. Power escalation continued until June 6th when 85% Reactor Rated Thermal Power (38 MWe-Net) was achieved. Power generation continued at this level until June 21st.

At 2121 on June 21st, the reactor was manually shut down to repair a seal leak in Upper Control Rod Drive Mechanism No. 24. The seal on Forced Circulation Pump 1A was also repaired while the plant was shut down.

At 1827 on June 28th, the reactor was brought to critical, but a scram occurred at 2038 with reactor power at 7×10^{-9} amps due to failure to upscale on Nuclear Instrument Channel No. 6. At 2125 the reactor was returned to critical and at 2256 on June 29th, the turbine-generator was synchronized to the DPC grid. Power escalation continued with 38% Reactor Rated Thermal Power (14 MWe-Net) being achieved by the end of the June reporting period.

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-409
 UNIT NAME LACBWR
 DATE 7-7-80
 COMPLETED BY L.S. GOODMAN
 TELEPHONE 608-689-2331

REPORT MONTH JUNE 1980

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
80-04	06-02-80	S	24.2	E	1	NA	ZZ	ZZZZZ	LICENSE EXAMINATIONS.
80-05	06-21-80	F	193.7	A	1	NA	RB	CRDRVE	LACBWR was shutdown to repair a seal leak in Upper Control Rod Drive Mechanism No. 24. The seal on Forced Circulation Pump 1A was also repaired while the plant was shut down.

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-409
 UNIT LACBWR
 DATE 07-07-80
 COMPLETED BY L.S. GOODMAN
 TELEPHONE 608-689-2331

MONTH JUNE 1980

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	38	17	38
2	28	18	38
3	1	19	38
4	20	20	38
5	32	21	28
6	38	22	SHUTDOWN
7	38	23	SHUTDOWN
8	39	24	SHUTDOWN
9	39	25	SHUTDOWN
10	39	26	SHUTDOWN
11	38	27	SHUTDOWN
12	38	28	SHUTDOWN
13	38	29	SHUTDOWN
14	38	30	13
15	38	31	
16	38		

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.

INSTRUMENT AND ELECTRICAL MAINTENANCE

JUNE 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
NUCLEAR INSTRUMENTATION	PREVENTIVE	NA	TEST DUE	COMPLETED TESTS	COMPLETE TECHNICAL SPECIFICATION TESTS N-5 THRU N-9
NUCLEAR INSTRUMENTATION	PREVENTIVE MR-3199	OUTAGE 80-05	SUBSTITUTION REQUEST	INSTALLED POWER SUPPLY	REPLACED N-1, N-2, H.V. POWER SUPPLY
NUCLEAR INSTRUMENTATION	PREVENTIVE MR-3196	OUTAGE 80-05	NEW POWER SUPPLY	CALIBRATION CURVE	DISCRIMINATOR AND HIGH VOLTAGE CURVE COMPLETED FOR N-2
NUCLEAR INSTRUMENTATION	CORRECTIVE MR-3157	OUTAGE 80-04	OSCILLATOR DRIFT	HIGH CALIBRATION POINT OFF	ADJUSTED HIGH CALIBRATION FOR N1
NUCLEAR INSTRUMENTATION	PREVENTIVE	NA	TEST REQUESTED	COMPLETED TESTS	CALIBRATION TEST COMPLETED FOR CHANNEL N-1 AND N-2
SAFETY SYSTEM	PREVENTIVE	NA	TEST DUE	COMPLETED TESTS	COMPLETED SAFETY SYSTEM TECHNICAL SPECIFICATION TESTS FOR CHANNELS 1, 2, AND WATER NO. 3
RADIATION MONITORING	PREVENTIVE	NA	TEST DUE	COMPLETED TESTS	COMPLETED RADIATION MONITOR TECHNICAL SPECIFICATION TESTS.
CONTROL ROD DRIVES	CORRECTIVE MR-3156	OUTAGE 80-04	WATER LEAKAGE	BLOWN FUSE	REPLACED SCRAM SOLENOID FUSE FB-56(2)
CONTROL ROD DRIVE NO. 29	CORRECTIVE MR-3183 AND MR-3184	OUTAGE 80-05	WATER LEAKAGE	SHORTED PRESSURE TRANSMITTER	REPLACED TRANSMITTER FOR CONTROL ROD DRIVE NO. 29
TURBINE OIL PUMP BREAKER	CORRECTIVE MR-3197 AND MR-3155	OUTAGE 80-04	LINKAGE HANGUP	TRIP COIL BURNOUT	REPLACED COIL AND TESTED BREAKER
ENVIRONMENTAL MONITORING	CORRECTIVE MR-3159	NA	NORMAL USAGE	PUMP DEFECTIVE	REPLACED AIR MONITOR PUMP

INSTRUMENT AND ELECTRICAL MAINTENANCE

JUNE 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
UNDERWATER LAMPS	CORRECTIVE MR-3163	NA	NORMAL USAGE	BURNED OUT LAMPS	REPLACED LAMPS
ACID STORAGE TANK	CORRECTIVE MR-3169	OUTAGE 80-04	ACID EROSION	PROBE TOO SHORT	REPLACED PROBE
REACTOR FEED PUMP 1A	CORRECTIVE MR-3175	NA	NORMAL USAGE	DRIVE ISOLATING	REPLACED CONTROL DRIVE MOTOR
FUEL LEVEL GAUGE - 1B DIESEL GENERATOR	CORRECTIVE MR-3135	OUTAGE 80-05	USAGE	HAND PUMP DEFECTIVE	REPLACED HAND PUMP WITH STATION AIR SYSTEM
FUEL MOVEMENT TENSIO METER	PREVENTIVE	NA	TEST DUE	COMPLETED TESTS	COMPLETED PRE-OP TEST FOR TENSIO METER
DIESEL GENERATOR 1A AND 1B	PREVENTIVE	NA	TEST DUE	COMPLETED TESTS	COMPLETED MEGGER TESTING
MAIN STEAM ISOLATION VALVE INDICATOR	CORRECTIVE MR-3176	OUTAGE 80-05	NORMAL USAGE	INOPERABLE INDICATION	REPLACED POTENTIOMETER
SHUTDOWN CONDENSER DRAIN VALVE	CORRECTIVE MR-3208	OUTAGE 80-05	INCORRECT INSTALLATION	VALVE INOPERABLE IN SOME CASES	CONNECTED CIRCUIT IN DIRECT PARALLEL PATH
TURBINE ROTOR STOP ALARM	CORRECTIVE MR-3215	NA	CONTAMINATION	SWITCH INOPERABLE	CLEANED PIVOT POINT ON SWITCH

MECHANICAL MAINTENANCE

JUNE 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
TRAVELING SCREEN	CORRECTIVE MR-3168	NA	DRIVE CHAIN BROKE	WOULDN'T RUN	REPLACED CHAIN LINK
CIRCULATION PUMP SEAL WATER PUMP 1B	CORRECTIVE MR-3162	NA	MECHANICAL SEAL DRAGGING	LEAKS EXCESSIVELY	CLEANED AND READJUSTED
FUEL ELEMENT STORAGE WELL FUEL RACKS	FACILITY CHANGE 79-20, MR-3173	NA	NONE	NA	WELDED SEISMIC PADS ON RACKS
CONTAINMENT BUILDING EXHAUST FILTERS	PREVENTIVE MAINTENANCE MR-3149	NA	GETTING DIRTY	INCREASED ΔP	REPLACED PREFILTERS
1A REACTOR FEED PUMP	CORRECTIVE MR-3175	NA	FOAMING	REDUCED LUBE PROPERTIES	CHANGED OIL
FUEL HANDLING GRAPPLE	PREVENTIVE MAINTENANCE MR-2588	NA	CABLE STRANDS BROKEN	SNAGS GLOVES	REPLACED CABLE
TURBINE BUILDING FIRE HOSES	FACILITY CHANGE	NA	NOT CORRECT RATING	WILL ROT	REPLACED HOSES
REPAIR HOLES IN FUEL ELEMENT STORAGE WELL LINER	FACILITY CHANGE 58-80-1, MR-3179	NA	HOLES WERE PREVIOUSLY DRILLED IN LINER	WOULD LEAK WATER	WELDED PATCH OVER EPOXY INJECTION HOLES
1A FORCED CIRCULATION PUMP SEAL	CORRECTIVE MR-3190	OUTAGE 80-05	EXCESSIVE WEAR	EXCESSIVE LEAKOFF	REPLACE SEAL PARTS
REMOVED 7 LOWER CONTROL ROD DRIVE MECHANISMS	PRECAUTIONARY MR-3194	OUTAGE 80-05	NONE	NA	TO REMOVE UPPER CONTROL ROD DRIVE MECHANISM NO. 24

MECHANICAL MAINTENANCE

JUNE 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
TUNNEL AIR ACTIVITY MONITOR	PREVENTIVE MAINTENANCE	NA	NORMAL WEAR	WORK BELT	REPLACED BELT
MAIN AIRLOCK OPERATING CHAIN	CORRECTIVE MR-3154	OUTAGE 80-04	WEAR	BROKEN LINK	REPLACED LINK
NO. 3 FEEDWATER HEATER RELIEF VALVE FLANGE GASKET	CORRECTIVE MR-3111	OUTAGE 80-04	AGE	STEAM LOCK	REPLACED GASKET
MAIN AIRLOCK OPERATING SHAFT	PREVENTIVE MAINTENANCE MR-3151	OUTAGE 80-04	WEAR	SHAFT KEY WORN EXCESSIVELY	REPLACED KEY IN SHAFT
OIL LEAK ON TURBINE INTERCEPT VALVE OPERATOR	CORRECTIVE MR-3102	OUTAGE 80-04	LOOSE BOLTS	LEAKED OIL	TIGHTENED BOLTS
SPARE CONTROL ROD DRIVE CHARGING SYSTEM ACCUMULATOR	PREVENTIVE MAINTENANCE	NA	AGE	NA	REPLACED BLADDER AND O-RINGS
HEALTH PHYSICS SAMPLE FUME HOOD BLOWER	PREVENTIVE MAINTENANCE	NA	AGE	WORN BELT	REPLACED BELT
FUEL ELEMENT STORAGE WELL (FESW)	FACILITY CHANGE 58-80-1, MR-3161	NA	AGE	LEAKAGE	PUMPED EPOXY IN SPACE BETWEEN FESW LINER AND CONCRETE WALL
REPAIR HIGH RADIATION BARRIER GATE TO PURIFICATION AREA	CORRECTIVE MR-3160	NA	WEAR	SAGGING	WELDED HINGE ON
WASTE DISPOSAL BUILDING EXHAUST FAN	PREVENTIVE MAINTENANCE	NA	WEAR	LOOSE BELT	TIGHTENED
WASTE WATER FLOW TOTALIZER	CORRECTIVE MR-3167	NA	DEBRIS PLUGGED SCREEN	NO FLOW	CLEANED SCREEN

MECHANICAL MAINTENANCE

JUNE 1980

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
UPPER CONTROL ROD DRIVE MECHANISM NO. 24	CORRECTIVE MR-3190	OUTAGE 80-05	WEAR	LEAKAGE	REPLACED SEAL AND OTHER WORN PARTS
1B WASTE WATER PUMP	PREVENTIVE MAINTENANCE MR-3197	OUTAGE 80-05	NORMAL WEAR	LOW PUMP RATES	REPLACED IMPELLORS AND CASING
FUEL ELEMENT STORAGE WELL FUEL RACKS	FACILITY CHANGE 79-20	NA	NONE		PROCEEDING WITH INSTALLATION
1A WASTE WATER PUMP	CORRECTIVE MR-3193	OUTAGE 80-05	WEAR	SEAL SHOT	REPLACED MECHANICAL SEAL AND SHAFT SLEEVE
1A SHUTDOWN CONDENSER STEAM INLET	CORRECTIVE MR-3207	OUTAGE 80-05	WEAR	SEAL RINGS ON PISTON OPERATOR LEAK AND WILL NOT OPERATE	INSTALLED NEW PISTON PACKING