# Daily Power Plant

M 228

BOILER ROOM

BOILERS

TURBINE ROOM

PRESSURES KG/cm²

TEMPERATURES °C

Stoker Engines | Heaters | Fire Pumps | Service Pumps | Coal Larries

Priming Pumps | Air Compressors

WATER METERS

No. 1 6" | No. 2 12" | No. 3 | No. 4

To Day
Yesterday
Difference

Boiler Room Crew

Title | 7-3 | B | 3-11 | B | 11-7 | B

Boilers cabled
Blowers
Reserve Unit

Feed Water Temperatures °C

Watch | 7-3 | 3-11 | 11-7

Before entering
Economizer
After leaving
Economizer

Coal Consumed kg

Watch | R & W BOILERS | R & S BOILERS

7-3
3-11
11-7

Steam Consumed kg

7-3
3-11
11-7

REMARKS

Turbine Room Crew

Title | 7-3 | B | 3-11 | B | 11-7 | B

Average Vacua in Condensers m m

Watch | Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

7-3
3-11
11-7

Temperature of Condensing Water °C

Watch | Leaves | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

7-3
3-11
11-7

Tides

High | Time | Low | Time

REMARKS

Maintenance Crew

Title | 7 A.M. 5 P.M. | B

Dummy Settings

No. | Dry | Before | Changed | Dry

INSPECTION | REPAIRS | CMXX—

Boilers
Economizers
Feed Pumps
Fan Engine
Blowers
Heaters
Stokers
Stoker Engines
Shafting
Piping and Valves
Boiler Tubes
Coal & Ash Equipment

INSPECTION | REPAIRS | CMXX—

Turbines
Condensers
Dry Vacuum Pumps
Hot Well
Priming
Oil
Gravity Oil System
Exciter Engines
Piping and Valves
Gauges & Instruments
Heating System

LEGEND:
| Steaming or running.
Banked.
X In service.
O Out of service.

LEGEND:
X In service.
O Out of service.

Fig. 17. Central Station Log Form.
(Left half only. For right half see page 17.)



# Log, Cos Cob, Conn.

FOR 24 HOURS ENDING 7 P.M. | Mon. | Day | Month | Year

SWITCHBOARD

GENERATOR K W hr.

25 CYCLES | 60 CYCLES

OUTPUT K W hr.

25 Cycle | 60 Cycle | Total

EXCITERS | TRANSFORMERS | FEEDERS

Room | Meters | Temperatures °C | East | West

TIME

LOAD CURVE

25 CYCLE K W | 60 CYCLE K W

INTEGRATING WATTMETER READINGS

Today
Yesterday
Difference

ELECTRICAL CREW

Title | 7-3 | B | 3-11 | B | 11-3 | B

REMARKS

LIGHTING ARRESTERS

| | | | |
|---|---|---|---|
| F1-3W | | AN | F1-3E |
| F2-4W | | AS | F2-4W |
| T2-3W | | C1 | T2-3E |
| T1-4W | | C2 | T1-4E |

Regulator Positions Changed

1 | 2 | 3 | 4

Transformer Oil

Oil Balance | Gallons

Received
Delivered
Used
Filtered
On Hand Clean
On Hand Dirty

INSPECTION | REPAIRS | CMXE—

Generators
Exciters
Motors
Cir. Breakers
Wiring
Instruments &c

LEGEND:
| Running.
Floating.
X In service.
O Out of service.
C Charged.
I Inspected.
R Resistance in. Resistance out.
G Ground.
L Lead despatcher's resistance in.
B Breaker out.

On Cross Section Chart Show—
Output in heavy black curve; Swings in heavy peak curve; Machine Cap. in dashed block curve.

Checked:
Chief Electrician.

ELECTRICAL SUMMARY

25 CYCLE SYSTEM

Generator Hours & Minutes Operated | GENERATION | TOTAL 25 CYCLE OUTPUT

1 Local Consumption
2 60 Cycle System Consumption
3 3 Phase output
4 Total Miscellaneous Consumption (Items 1+2+3+4)
5 Total Railroad Consumption (Items 1-5)

60 CYCLE SYSTEM

6 SIGNAL WEST OUTPUT
7 SIGNAL EAST OUTPUT
8 TOTAL 60 CYCLE OUTPUT (Item 7+8)
9 GROSS PLANT OUTPUT (1+6+9)

Maximum Hour 7 M to 8 M KWhr
" Machine Capacity Nos. KW
Minimum 3 M to 4 M KWhr
" Machine Capacity Nos. KW

7-3 | 3-11 | 11-7

Maximum Swing | East KW Total | KVA | West KW Total | KVA | KW Total | KVA
Machine Capacity | Nos. Total KW | Nos. Total KW | Nos. Total KW

Weather

COAL STATEMENT

CAR NO. | RANGE | N & W MINES Tons of Coal | DATE DELIVERED Month | Day | DATE UNLOADED Month | Day | LBS Delivered | Unloaded

Total new delivery tn lbs.
Unloaded in 24 hours
Previous balance tn lbs.
On hand at 7.00 A. M. in lbs.
Used running lbs.
Used banking lbs.
Total consumed lbs.
Balance on hand lbs.

SUMMARY OF ECONOMIC RESULTS

SHIFT | 7-3 | 3-11 | 11-7 | Per

Total coal W.V. Boilers included
Water Evaporated
Water Evaporated per lb Coal
Factor of Evaporation
Equiv. of Water Evaporated from and at 100° C. per lb Coal
Efficiency of Boilers
Coal per Yard per Watt Hour of Output
Coal per Yard per Watt Hour at Switchboard
Total Output K.W.H.
Load Factor 25 Cycle
Machine Factor 25 Cycle
Load Factor 60 Cycle
Machine Factor 60 Cycle
Amperes K.W.hr or Kg
Coal per K.W.hr or Kg
Theoretical K.W.hr. per lb Coal for Perfect Engine Working between Limits of Temperature of Steam and Condenser
Thermal Efficiency
Total Output 25 Cycle K.W.hr. per lb Coal
Water Purchased

Coal Pt.

NOTES

Checked:
Planning Engineer

Signed:
Chief Engineer.

Fig. 17. Central Station Log Form.
(Right half only. For left half see page 16.)