PURPOSE
Long range aircraft warning and light control

FREQUENCY
86 Hz, 88 Hz or 90 Hz (spot frequencies)

WAVELENGTH
3.5, 3.4 or 3.3 metres (approx.)

PEAK POWER OUTPUT
350 kW

PULSE REPETITION FREQUENCY
30 or 100 pulses per second

PULSE LENGTH
9 microseconds

BEAM-WIDTH
36° horizontal

AERIAL ROTATION SPEED
2 or 4 revs per minute

INTERMEDIATE FREQUENCY
12 Hz/s

RECEIVER BANDWIDTHS

(1) 150 Hz/s (II) 1.5 Hz/s

POWER REQUIREMENTS AND CONSUMPTION
220V 50 c/s single phase (201BQ Power Supply Outfit)
220V 50 c/s three phase (A.C. Supply Outfit 2DB)
(220V D.C.) from ships mains
100V 500 c/s (from nearest W.G. office)

HEAT DISSIPATION IN OFFICE
Receiver 1.45 kW
Transmitter 11 kW

MAJOR UNITS

(a) Transmitter Office
1. Patt. W1130 Panel 34B, Transmitting (upper)
2. Patt. W1131 Panel 31B, Transmitting (lower)
3. Patt. 99320 Panel 34R, Modulator (upper)
4. Patt. 99321 Panel 31R, Modulator (lower)
5. Patt. 99312 Panel 34B, Rectifier (upper)
6. Patt. W133 Panel 34B, Rectifier (lower)

(b) Receiver
7. Patt. W3533 Receiver, electric 2 in N.C.
8. Patt. W3256 Starter for Patt. W368 Receiver
9. Patt. W7391 Blower, electric

Items 7, 8 and 9 are housed in Patt. W720g Framework.

VIEW OF TRANSMITTER
TEST EQUIPMENT

10. Pkt. W580 Waymaster P70 (shown in Pkt. W5798 Premounted)
11. Pkt. W593 Computer Unit Design A (shown in Item 1)
12. Pkt. W581 Waymaster 600 (shown in Item 3)
13. Pkt. W579 Supply Unit 1 (Type 568469) (shown in Item 1)

(c) RECEPTION OFFICE

Receiver Outfit C7L consisting of:
14. Pkt. 53540 Amplifier 888 (shown in Pkt. 57001 Premounted)
15. Pkt. 57279 Attenuator Unit Design 15 (shown in Item 20)
16. Pkt. 53186 Performance Meter Design 7 (shown in Pkt. 57003 Premounted)
17. Pkt. 53697 Calibrator Design 1 (shown in Pkt. 57001 Premounted)
18. Pkt. W115 Receiver Unit Design 15 (shown in Item 20)
19. Pkt. 57756 Waveform Gain Unit Design 2 (shown in Pkt. 57301 Premounted)
20. Pkt. 57931 Receiver FY7 (shown in Item 20)
21. Pkt. 59592 Filter Unit Design 15 (shown in Pkt. 57801 Premounted)
22. Pkt. 57888 Panel 150
23. Pkt. 5302A Power Unit for Panel 150 (shown in Pkt. 57831 Premounted)
24. Pkt. 59596 Filter Unit Design 31 (Part of aerial)

(d) Control Outfit 240 with Control Unit 240, Pkt. 54247 (See separate data sheet)

(A) 100 kW Power Supply Outfit

Pkt. 59820 Alternator Motor 14 kW (15 hp) (2 in No.)
Pkt. 66240 Starter Pack 14 kW (15 hp) (2 in No.)
2 Pkt. 53010 Battery, Aft (2 in No.)
2 Pkt. 54750 Main Board 244 (Distribution) (Lower)
2 Pkt. 54751 Main Board 244 (Distribution) (Upper)
2 Pkt. 54752 Main Board 244 (Regulating)
2 Pkt. 54753 Main Board 244 (Regulating)

These items are only fitted where Type 28624 is fitted in conjunction with Type 756.

PHYSICAL DATA

Weight of Apparatus in Transmitter Office (including power supply control and distribution panels) = 30 cwt
Weight of Apparatus in Receiving Office (including distribution panels etc.) = 30 cwt
Weight of Meter Alternators, Starters = 30 cwt
Weight of Spare Batteries = 14 cwt
Weight of Aerial Outfit 28
Minimum size of Transmitter Office = 12' x 9' x 9'
Minimum size of Receiving Office = 11'3" x 9' x 9'

BRIEF DESCRIPTION

The equipment to this contract is designed for installation in a receiving office and a transmitting office. The associated interceptors fitted are Type 28624 (for 12' x 9' x 9' Premounted) and Type 28361 (for 6' x 9' x 9' Premounted). The following displays are used in conjunction with Type 28001:

Outfit 24 (P.R.I.) Outfit 221 (Signal extinction) Outfit 222 (Interception) Outfit 223 (Interception)

The two interceptors are also provided as part of Receiver Outfit C7L, normally in aerials fitted with Type 28624 (for 12' x 9' x 9' Premounted) and the displays are shown in the lower display room and the upper display room. The Control Unit 240 for Aerial Outfit C7L is installed in the receiving office with the IC displays (tiled pair) mounted alongside.

REMARKS

The transmitting office must be situated within 50 ft cable run of the transmitting office.

HANDBOOKS

ESTABLISHMENT LISTS

INSTALLATION SPECIFICATIONS

D.J.S.9511100

D.J.S.95111100

DJS/2 (Type 5672) and Receiver Outfit C7L

DJS/2 (Aerial Outfit 240)

DJS/2 (Type 5672)

DJS/2 (Aerial Outfit 240)