SUMMARY OF DATA

All the above aerial outfits are erected on Shore Stations for H.F. communication.

AERIAL OUTFIT AFA

DESCRIPTION A H.F. receiving aerial i

A H.F. receiving aerial for communications omni-directional. It consists of a horizontal, full wave cage dipole with two arms arranged at right angles. The

aerial is directly connected via a matching unit to a coaxial cable.

FREQUENCY COVERAGE Is supplied in four outfits to cover 1.5 Mc/s to 24 Mc/s viz:-

Assembly W 1.5 Mc/s to 3 Mc/s X 3 Mc/s to 6 Mc/s

6 Mc/s to 6 Mc/s 6 Mc/s to 12 Mc/s 12 Mc/s to 24 Mc/s.

FEEDER Patt. 13809 70 ohm coaxial cable through Patt. W8318 Coupling Unit or Patt. 100388.

MASTS

Assemblies W and X 3 - 110 ft. timber lattice towers
1 - 70 ft. timber lattice tower.

Assemblies Y and Z 3 - 41 ft. masts 1 - 25 ft. mast.

HANDBOOK BR.1450

ESTABLISHMENT LIST E.815

INSTALLATION INFORMATION A.S.R.E. Drawing No. 31367 and 31367A.

AERIAL OUTFIT AFB

DESCRIPTION A horizontal dipole with reflector used for long distance directional reception.

The aerial is used in conjunction with Aerial Outfit AFC with which it is similar in layout and dimensions. The receiver is coaxially fed, necessitating

the use of a coupling matching unit.

FREQUENCY COVERAGE Spot frequencies between 5 and 20 Mc/s.

FEEDER 600 ohm transposed down feeder coupled to 70 ohm coaxial cable Patt. 13809.

COUPLING UNIT Patt. W8318 or R00388.

MASTS 80 - 180 ft. according to frequency.

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ESTABLISHMENT LIST E.867

INSTALLATION INFORMATION A.S.R.E. Drawing No. 41269.

AERIAL OUTFIT AFC

DESCRIPTION Horizontal dipole with reflector used for long distance directional transmission.

Used in conjunction with Aerial Outfit AFB.

FREQUENCY COVERAGE Spot frequencies between 5 - 20 Mc/s.

FEEDER 600 ohm transmission line.

MASTS 80 - 180 ft. according to frequency.

REMARKS Suitable transmitters are CS38, CS58, SW88, SW811 and TFS31.

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ESTABLISHMENT LIST E.868

INSTALLATION INFORMATION A.S.R.E. Drawing No. 41185

AERIAL OUTFIT AFD

DESCRIPTION Vertical half wave transmitting dipole 'Y' matched to 600 ohm transmission

line used for broadcast.

FREQUENCY COVERAGE Spot frequencies between 5 - 20 Mc/s.

RATING 10 kW.

FEEDER 600 ohm transmission line.

MASTS 80 - 180 ft.

REMARKS Suitable transmitters CS 38, CS 58, SWB8, SWB11 and TFS 31.

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ESTABLISHMENT LIST E.869

INSTALLATION INFORMATION A.S.R.E. Drawing No. 41219

AERIAL OUTFIT AFE

DESCRIPTION A vertical quarter wave length transmitting aerial used for broadcast.

FREQUENCY COVERAGE Spot frequencies between 2.3 - 4 Mc/s.

RATING 7 kW.

FEEDER 600 ohm transmission line.

COUPLING UNIT Patt. W9457.

MASTS 80 - 110 ft. according to frequency.

REMARKS This aerial is used at the lower end of the H.F. band where insufficient mast

height would prohibit the use of a dipole. Suitable transmitters are CS 33,

TFS31, SWB8, SWB11, Type 88 series.

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ESTABLISHMENT LIST E.625

INSTALLATION INFORMATION A.S.R.E. Drawing No. 31178.

AERIAL OUTFIT AFF

DESCRIPTION Quarter wavelength transmitting and receiving vertical aerial used for

broadcast.

FREQUENCY COVERAGE Spot frequencies between 1.5 - 20 Mc/s.

RATING 500 W.

FFEDER 47 ohm coaxial cable Patt. 13837

COUPLING UNIT A.M. Ref. 10A/12142 Type 12.

MASTS 80 - 180 ft. according to frequency.

REMARKS Suitable transmitters are Type 88 Type 617 or Type 610 Series.

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ESTABLISHMENT LIST E.611.

INSTALLATION INFORMATION A.S.R.E. Drawing No. 30163A.

AERIAL OUTFIT AFG

DESCRIPTION

quarter wavelength transmitting and receiving vertical aerial for ground to air

communication or broadcast.

FREOMENCY COVERAGE

Spot frequencies 3 - 20 Mc/s.

RATING

500 W.

FFFDFR

47 ohm coaxial cable Patt. 13837

COUPLING UNIT

A.M. Ref. 10A/12142 Type 12

MASTS

55 ft.

REMARKS

Suitable transmitters are Type 88, Type 617 or Type 610 series.

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ESTABLISHMENT LIST

E.661

INSTALLATION INFORMATION A.S.R.E. Drawing No. 31460

AERIAL OUTFIT AFH

DESCRIPTION

End fed, half wavelength, vertical transmitting aerial for local ship shore

communication.

FREQUENCY COVERAGE

Spot frequencies between 1.5 - 4 Mc/s.

RATING

350 W.

FEEDER

70 ohm coaxial cable Patt. 13809 or 600 ohm transmission line.

COUPLING UNIT

Patt. 58137

MASTS

180 - 350 ft. according to frequency.

REMARKS

Suitable transmitters are Type 88 or Type 617.

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ESTABLISHMENT LIST

E.816

INSTALLATION INFORMATION

A.S.R.E. Drawing No. 41184

AERIAL OUTFIT AFJ

DESCRIPTION

Two wire transmitting rhombic aerial used for long distance directional

communication.

FREQUENCY COVERAGE

6.6 - 20 Mc/s.

RATING

10 kW.

FEEDER

600 ohm transmission line.

MASTS

110 ft.

REMARKS

Suitable transmitters are CS3B, CS5B, SWB8, SWB11 or TFS31.

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ESTABLISHMENT LIST

E.612

INSTALLATION INFORMATION A.S.R.E. Drawing No. 26729

AERIAL OUTFIT AFK

DESCRIPTION A vertical, folded terminated transmitting dipole used for broadcast transmission.

3:1 frequency ratio in the H.F. band. FREQUENCY COVERAGE

10 kW. RATING

600 ohm transmission line.

80 - 180 ft. according to frequency.

Suitable transmitters are CSB, CSB, SWB8, SWB11 or TFS31. REMARKS

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FFFDFR

MASTS

E.608. ESTABLISHMENT LIST

INSTALLATION INFORMATION A.S.R.E. Drawing No. 31684.

AERIAL OUTFIT AFL

Horizontal receiving dipole used for point to point circuits. DESCRIPTION

FREQUENCY COVERAGE Spot frequencies between 5 and 20 Mc/s.

600 ohm transposed down feeder coupled 70 ohm coaxial cable Patt. 13809. FEEDER

COUPLING UNIT Patt. W8318 or 100388.

110 ft. MASTS

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E.693. ESTABLISHMENT LIST

INSTALLATION INFORMATION A.S.R.E. Drawing No. 31699.

AERIAL OUTFIT AFM

Horizontal transmitting dipole used for point to point circuits. DESCRIPTION

Spot frequencies between 5 - 20 Mc/s. FREQUENCY COVERAGE

10 kW. RATING

FEEDER 600 ohm transmission line.

80 - 180 ft. according to frequency. MASTS

REMARKS Suitable transmitters are CS38, CS58, SWB8, SWB11 or TFS31.

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ESTABLISHMENT LIST E.871.

INSTALLATION INFORMATION A.S.R.E. Drawing No. 31703.

AERIAL OUTFIT AFN

DESCRIPTION! Single wire receiving rhombic for long distance directional communication.

FREQUENCY COVERAGE 6.6 - 20 Mc/s.

FEEDER 70 ohm coaxial Patt. 13809.

COUPLING MAIT Patt. W8318 or 100388

MASTS 80 ft.

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E.639. ESTABLISHMENT LIST

INSTALLATION INFORMATION A.S.R.E. Drawing No. 30039.

DESCRIPTION

Horizontal folded terminated receiving dipole used for reception over a wide

frequency band.

FREQUENCY COVERAGE

3:1 frequency ratio in the H.F. band.

FEEDER

70 ohm coaxial cable Patt. 13809.

COUPLING UNIT

Patt. W8318 or 100488.

MASTS

80 - 180 ft. according to frequency.

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ESTABLISHMENT LIST

E.613.

INSTALLATION INFORMATION

A.S.R.E. Drawing No. 30406.

AERIAL OUTFIT AFP

DESCRIPTION .

Four wire transmitting rhombic used for long distance directional communication.

FREQUENCY COVERAGE

6.6 - 20 Mc/s.

RATING

10 kW.

FEEDER

600 ohm transmission line.

MASTS

110 ft.

REMARKS

Suitable transmitters are CS58, CS38, SWB8, SWB11, TFS31 or DS13.

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ESTAPLISHMENT LIST

E.726.

INSTALLATION INFORMATION

A.S.R.E. Drawing No. 31658.

AERIAL OUTFIT AFO

DESCRIPTION

Single wire receiving rhombic for long distance directional communication.

FREQUENCY COVERAGE

6.6 - 20 Mc/s.

FEEDER

600 ohm transposed transmission line coupled to 70 ohm coaxial cable Patt. 13809.

COUPLING UNIT

Patt. W8318 or 100388.

MASTS

78 ft. Adastra.

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ESTABLISHMENT LIST

E.870.

INSTALLATION INFORMATION

A.S.R.E. Drawing No. 41217.

AERIAL OUTFIT AFR

DESCRIPTION

Three wire transmitting rhombic for long distance directional communication.

presents a constant impedance over its frequency range.

FREQUENCY COVERAGE

Dependent on dimensions.

PATING

40 kW.

FEEDER

600 ohm transmission line.

MASTS

110 ft.

REMARKS

Suitable transmitters are SWB8, SWB11 and DS13.

HANDROOK

BR-1450-

ESTABLISHMENT LIST

E-989.

INSTALLATION INFORMATION

A.S.R.E. Drawing No. 41408.