

RESTRICTED

H.M.S. HORNET
GOSPORT

COASTAL FORCES COMMUNICATION ORDERS

Short Title:- C.F.C.Os

These orders are effective on receipt.

J.M. HODGES
Captain Coastal Forces.

DISTRIBUTION

C. in C. Home Fleet.

Flag Officer Flotillas (Home).

C. in C. Portsmouth.

C. in C. Nore.

Commodore ~~Herrich~~ ^{INSHORE FLOTILLA}

Captain in Charge Portland.

Captain (D) Portsmouth.

T.S. 2.

H.M.S. MERCURY.

H.M.S. DOLPHIN.

H.M.S. FINISTERRE. †

(Internal)

C.C.F. (3)

CCF - 301 - 300

F.P.B. 1.

F.P.B. 2.

T.B. 1.

S.O.T.S.

S.O.R.C.S. (5)

All Coastal Forces Craft.

Electrical Officer (2).

L.S.C.

TRU 1

AMENDMENT LIST

AMENDMENT NUMBER	DATE	INSERTED BY	AMENDMENT NUMBER	DATE	INSERTED BY
ONE	14/1/55	J.R. Ab			
TWO	20.1.56	Agb			
THREE	19.7.57	Spinning O/Ta			
FOUR.	16.7.57.	J. J. J. J. J.			

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H. M. S. H O R N E T

COASTAL FORCES COMMUNICATION ORDERS

SECTION I

General

Article No.1 - Base

A signal should never be made if another means of communication or promulgation is available.

Article No.2 - Main Signal Office

The M.S.O. in HORNET is Civilian manned and therefore conforms to normal Dockyard hours.

Monday to Friday 0800 to 1700

Saturday 0800 to 1200.

Closed on Sundays.

At other times signals are handled by the Officer of the Watch.

Article No.3 - Logs

The following Signal Logs are to be kept.

<u>Name</u>	<u>By Whom Kept</u>
Unclassified.	M. S. O.
Restricted.	M. S. O.
Confidential.	Captain's Office.
Secret.	Captain's Office.
Top Secret.	Captain's Office.
A.G.Ms.	M. S. O.
* Classified A.G.Ms. (CONFID + ABOVE)	Signal Officer. <i>Captain's Office</i>
Service Telegrams.	M. S. O.
Private Telegrams.	Master-at-Arms.
* Kept by Capt's Office.	

Article No.4 - Message Handling Internal Signalling Heads of
Department (Contd.)

Heads of Departments

C.C.F.	Commander.
Captain's Secretary	Assistant Secretary
Captain's Office	1st Lieutenant
C.R.O.	C.S.O.
S.O.O.	S.O.N.D.
G.O.	A.S.O.
S.C.O.	T.A.S.O. 1.
T.A.S.O. 2.	P.1.
P.2.	T.B.1.
S.O.T.S.	S.O.R.C.S.
M.P.O.	Squadron's E.O.
E.O. 1.	E.O. 2.
Electrical Officer	Supply Officer.
D.S.O.	Pay Office.
Victualling Office	Naval Stores Office
Commander (E)	Base Engineer Officer.
Engineer Records Office	T.E.O.
Trials Officer	Shipt. Officer.
Shipt. Lieutenant	S.S.O.

Article No.5 - Responsibilities of Originator.
Responsibility of Communication Department.

- (a) Responsibilities of Originator
- (i) Write full address correctly.
 - (ii) Allocate the Precedence.
 - (iii) Allocate Security Classification.
 - (iv) Ensure that the text is as BRIEF and concise as possible, and that names and difficult words are printed in capitals.
 - (v) See that signals are signed by a releasing officer to authorise transmission.
- (b) The following are never to be mentioned or referred to in Unclassified signals:-
- (i) Frequencies.
 - (ii) The phrase 'Radio Warfare'.
 - (iii) Name or number of any cryptographic publication.

Article 5 (a) add :- NOTE. S.C.O. or in his absence the
BASE P.O. TEL should be consulted on matters of communication
security, or on any matter if in doubt.

Article No.4 - Message Handling Internal Signalling Heads of Departments

(a) Message Handling

Restricted and Unclassified signals are handled by the Main Signal Office.

Confidential and above are handled by the Captain's Office.

Exclusive and Cosmic signals are handled by the C.B. Officer or S.C.O. only.

All traffic with HORNET is by telephone or Hand Message.

(b) Internal Signalling

All signals addressed to C.C.F. or HORNET are distributed on a "Need to Know" basis.

There are three Address Groups for internal signalling, namely:-

HORNET General.

Heads of Department.

All Boats.

HORNET Generals have a full distribution to 68 recipients. They should only be used for Urgent Operational Messages when other means of communication will not suffice.

HORNET Generals may only be originated from C.C.F. or HORNET.

As a general rule signals originated from C.C.F. are of an operational nature - signals originated from HORNET are of an administrative or domestic nature.

Recipients in Address groups are:-

All Boats

- | | |
|----------------------------|---------------------|
| C.C.F. | All boats |
| Commander | Captain's Secretary |
| Assistant Secretary | Captain's Office |
| 1st Lieutenant | S.O.O. |
| S.O.N.D. | C.S.O. |
| Gunnery Officer | S.C.O. |
| T.A.S.O. | P.1. |
| P.2. | T.B.1. |
| S.O.T.S. | S.O.R.C.S. |
| Plus Department concerned. | |

Article No.5 - Responsibilities of OriginatorResponsibility of Communication Department (Contd.)(c) Responsibility of Communication Department

- (i) Check signals and point out errors, if any, to Originator.
- (ii) To allocate Date Time Group.
- (iii) To clear signals by correct route.
- (iv) To insert reference on distributed copies (where necessary).
- (v) To detail Action Officer on 'In' signals.
- (vi) To include the originator on 'Out' signals.

NOTE: Action Officer is named on the bottom of all incoming signals which require action or reply. It is this Officer's responsibility either to originate the reply or see that the appropriate action is taken.

Releasing Officer - a list of releasing officers is laid down in Captain's Standing Orders.

Article No.6 - Telegrams

- (a) Service All Service telegrams originated in HORNET are to be made out on G.P.O. Form A7 and approved by the Executive Officer. They are to be sent to the M.S.O. for despatch and logging. The M.S.O. is to make a monthly return of all Service telegrams originated in HORNET to the Supply Officer for despatch to D.N.A.
- (b) Private Private telegrams are dealt with by the Master-at-Arms. Requests for extensions of leave etc., addressed to the Commanding Officer, H.M.S. HORNET are to be Reply Paid. Any extra telegram expenses incurred over personal matters of Officers and Ratings will be charged on the Ledger to the persons concerned. A.F.O. 1091/53 refers.

Article No.7 - Fire in Pens

On receipt of an Alarm of 'Fire in the Pens', watch is to be set immediately on Interboat Primary (8220 kc/s Voice) by base staff in Wireless Office and by all boats.

All movement instructions will be passed on this wave.

Article No.8 - Submiss/Subsunk. (Previously entitled Subsmash)

(a) On receipt of Submiss in HORNET the following organisation will immediately come into force.

(i) The duty F.P.B. Set watch on:

Broadcast "NL"

Interboat Primary (8220 kc/s voice).

C.C.N. TO CLEAR TRAFFIC AS NECESSARY

(ii) Remaining available boats Set watch on:

Interboat Primary (8220 kc/s voice).

(iii) Base W/T Office. Set watch on:

Interboat Primary (8220 kc/s voice).

- the P.O. Tel. reporting to the Duty Commanding Officer when (i) (ii) and (iii) have been carried out.

(b) On receipt of Subsunk (either as an initial signal or subsequent to Submiss) the following organisation will immediately come into force:

(i) The Duty F.P.B. will set watch on:

Broadcast "NL"

~~COASTAL~~

~~PORTSMOUTH Common & NET~~ (2649 kc/s) - as necessary to clear traffic to shore.

~~COMMON SUBSUNK TERTARY~~

~~Submarine H.F. Common~~ (4340 kc/s).

Interboat Primary (Unless sailed alone).

ONE ADDITIONAL W/T OPERATOR TO BE EMBARKED.

NOTE: The above waves are in order of importance and consideration should be given to embarking additional W/T operators from non-available craft or ferry crews if the number of W/T sets fitted and/or operator-s borne make this practicable.

(ii) Remaining Available Boats - Set watch on:-

~~COMMON SUBSUNK TERTARY~~

~~Submarine H.F. Common~~ (4340 kc/s).

Interboat Primary (8220 kc/s voice).

Article No.8 - Submiss/Subsunk. (Previously entitled Subsmash) (Contd.)

(iii) Base Office - Set watch on:-

Interboat Primary (8220 kc/s voice).

The P.O. Tel. is to arrange guards on the following waves if there are insufficient available boats to man them.

Broadcast "NL".

~~COASTAL~~
Portsmouth Command ~~Wave~~ ^{TERTIARY} (2649 kc/s).

~~COMMON SUBSUNK COMMON~~
~~Submarine H.P. Common~~ (4340 kc/s).

-reporting to the Duty Commanding Officer when all waves have been manned.

~~NOTE: All boats except M.T.B. 5000 can man one W/T line and one Broadcast in addition to Inter Boat Primary.~~
~~M.T.B. 5000 has facilities for manning 3 W/T lines in addition to Interboat Primary but normally only carries 1 I/Tel. + 1 Tel.~~

* "Available Boats" are those capable of putting to sea.

General

TELEPHONE COMMUNICATIONS

A marked reduction in all signal traffic will be ordered during all Submarine search and rescue operations and tuning/testing is to be reduced to the absolute minimum to ensure efficient communications. This applies equally to V.H.F. lines as aircraft will undoubtedly be engaged in the operation.

~~A.F.Os. 1167/52. 249/55~~
~~" 48/54. 1473/55~~
~~" 899/51. 128/54~~

REFERENCE MUST BE
MADE TO CURRENT
A.F.O's.

~~A.F.O. Diagram 46/55.~~
~~A.F.O. S4/54 Part 1. Articles 20, 22, 23 and 34 to 38.~~
~~" " Section III. Articles 5 and 21.~~

~~Portsmouth Command Communication Orders. Paragraphs 76-79. SECT (iii) ART 309~~
~~Captain's Temporary Memo. No. 266. PCSO 79~~

..... also refers.

("Submiss" replaces "Subsmash" 1. - A.F.Os. S107/54.)
("Subsunk" replaces "Subsmash" 2.)

Article No.9 - Distress, Search and Rescue

In the event of a distress message being received by craft at sea the Senior Officer present will order certain lines to be manned, if search and rescue operations are undertaken.

Watch on the following waves may be ordered.

1. International distress. 500 kc/s.
2. International distress. 2182 kc/s. (VOICE)
3. Search and Rescue (Home Fleet) 121.5 Mc/s.
4. Search and Rescue (Home Fleet) (R.N./R.A.F. Navaid and distress) -
 5695.5 kc/s (Day)) Secondary
 3095 kc/s (Night)) "
5. Certain V.H.F. channels for communication with aircraft similarly engaged.

- NOTE: (a) A distress call received direct should never be acknowledged unless permission has been obtained from the S.O. present. Such an acknowledgement imposes a moral obligation to alleviate the distress.
- (b) All British Coast stations keep watch on lines (1) and (2) above.
- (c) Coastal Forces craft not fitted with Type 618/9 or TGY cannot transmit on 500 kc/s.

CURRENT A.F.O.'s. 1

~~A.F.O. S1/55 Part 1, paragraphs 40-45 and H.F.O.C.'s 305 refer~~

Article No.10 - Passive Defence

~~Communication ratings not otherwise engaged may be ordered to man portable W/T voice sets in Passive Defence or other exercises and in cases of emergency. On all such occasions, correct circuit discipline is to be maintained and no unauthorised transmissions are to take place.~~

A. Insert new Article 10 :- SAILING AND ARRIVAL SIGNALS.

Sailing and Arrival signals are to be made in accordance with A.F.O. 'S' 1/55. ~~Sailing signals are to include details of communications and specify "at sea" or "on passage". Arrival signals are always to include means of communication i.e. "communications telephone number Temporary 8922" or as appropriate.~~

A.F.O.'s 1/56
SECTION H.M.
TABLE 21.

B. ARRIVAL SIGNALS SHOULD CONTAIN A TELEPHONE NUMBER WHEN A CONSTANT WATCH IS NOT MAINTAINED.

SECTION II

V/S ORGANISATION

Article No.1 - V/S Duties in BoatsV/S Equipment to be CarriedSizes of Ensigns and Jacks(a) V/S Duties in Boats

V/S Duties in all Boats will be carried out by the Telegraphist except in the Squadron Senior Officer's Boats which carry a V/S rating.

(b) Coxswains and Leading Seamen are to have a good working knowledge of Semaphore and Flashing. An exercise especially for them will be detailed from time to time in the Weekly Training Programme.

(c) V/S Equipment to be carried1st SquadronReduced

- 1 ~~Full~~ set of size 6 signal flags.
- 1 Aldis signalling lantern.
- 1 Patt. 1038 signalling lantern.
- 1 Intermediate signalling lantern.
- 1 Signal torch.
- 1 ~~Pair~~ hand flags.

SET

2nd Squadron

- 1 Reduced set of size 6 signal flags.
- 1 Aldis signalling lantern.
- 1 Patt. 1038 signalling lantern.
- 1 Signal torch.
- 1 Pair hand flags.

Target Boat SquadronControl Boats

- 1 10" signalling projector.
- 2 Aldis signalling lanterns.
- 1 Full set size 6 signal flags.
- 1 Patt. 1038 signalling lantern.
- 1 Signal torch.
- 1 Pair hand flags.

Radio Control Boats

- 1 Aldis signalling lantern.
- 1 Patt. 1038 signalling lantern.
- 1 Signal torch.
- 1 Pair hand flags.

(d) Sizes of Ensigns and JacksWeekdaysDress ShipSunday

Ensigns	3	4 4	4
Union Flags			
Jacks	2	3	3
MASTHEAD ENSIGNS	2	3	3

Article No.2 - Morning and Evening Colours

EVENING COLOURS NIGHT
CLOTHING

- (a) Ratings hoisting and lowering the Ensign and Jack at Morning and Evening colours are to wear Coastal Forces Rig. They are to remove their caps on the sounding of the 'Still'. Securing of halyards is to be done after the sounding of the 'Carry On'.
- (b) When absent from HORNET the Preparative is to be hoisted by the Duty Boat conforming to the Senior Officer Present Afloat, or to the Local Port Orders.

Article No.3 - Security

It is highly probable that during time of war Radio Silence would be imposed during most operations. Senior Officers are, therefore, to ensure that a high standard of Visual Signalling is maintained throughout their Squadrons.

Article No.4 - Senior Officers' Pennants

In order to distinguish the Senior Officers' Boats, the Senior Officers of Squadrons are to fly a small broad pennant bearing a blue St George's Cross.

Article No.5 - Special Distinguishing Flags in Harbour

- (a) The Duty F.P.B. will wear Flag 'R' at the yardarm.
- (b) When in HORNET, boats are to display the following at the yardarm.
- | | <u>Day</u> | <u>Night</u> |
|---------------------------------------|-------------|--------------|
| Boats able to move under own power. | Green Disc. | Green Light. |
| Boats unable to move under own power. | Red Disc. | Red Light. |

In all other ports, craft are to display a white light at the yardarm by night - regardless of position in trot or state of engines.

Article No. 6 - Ships under way during daylight hours

Ensigns are to be hoisted by all vessels in harbour when there is sufficient light for them to be seen if other H.M. Ships are under way before colours. This does not apply to boats whilst in HORNET pens.

Article No.7 - N.U.C. Lights

Whilst at sea, N.U.C. lights are to be tested half an hour before Sunset, and prepared for use in an emergency.

Article No.8 - Prosign "L"

When a message is passed down the line, the prosign "L" is to be passed back to the originator; informing him that the last boat - or the addressee - has received the message. The prosign "L" is answered by a Flash and retransmitted on receipt.

Article No.9 - Tactical Rudder

Unless otherwise ordered, Tactical Rudder is to be as follows:-

- Fairmile "D" class boats 15 degrees of wheel.
- Gay class boats 20 degrees of wheel.
- Target squadron boats 20 degrees of wheel.
- DARK CLASS BOATS 15 DEGREES OF WHEEL.

SECTION II ARTICLE 10.

BOATS ON SLIP - ENSIGNS, JACKS ETC.

BOATS ON THE SLIP BUT ON THE CHAINS ONLY ARE TO WEAR NORMAL ENSIGNS, JACKS, AND ARE TO DRESS SHIP AS IF THEY WERE IN THE WATER.

BOATS BEYOND THE CHAINS WHETHER UNDER COVER OR NOT ARE TO WEAR ENSIGNS ONLY AND NOT TO DRESS SHIP.

SECTION III

W/T ORGANISATION

301. LINE3 - CAPABILITIES OF CRAFT

Operational craft can man the following lines simultaneously:-

- (One H.F. Voice or C.W.
- (or One M.F. C.W.
- One V.H.F. Voice.
- One U.H.F. Voice.

302. SHIPS EXERCISING IN PORTSMOUTH AREA - W/T WATCH

Attention is drawn to Portsmouth Command Communication Orders, Article 303, concerning watches to be kept on CCN. In particular, if a boat is operating on its own and requires to use another H.F. frequency for exercising, it is to inform Portsmouth W/T info. Captain Coastal Forces of the frequency being kept so that priority traffic can be routed accordingly. (Note:- Reference to frequencies may be made in unclassified signals by quoting P.C.O. 301 and the relevant line number.)

303. SHIPS ON PASSAGE - W/T WATCH

(a) Wireless watch to be kept on passage will be ordered in sailing signals in accordance with A.F.O. S1 Section H.M. Table 22.

Normal watches will be as follows:-

- One boat - Single Operator Periods.
- Two in company - Two Operator Periods.
- Three or more in company - Constant watch.

(b) When less than 3 boats are on passage a loudspeaker watch is to be kept on 2182Kcs. (Voice) (International Distress Wave) outside the single or two operator periods. The use of this net will be limited to instructions to set watch on CCN. In addition, lifeboats (as in P.C.O. 305 paragraph 3) have V.H.F. on 138.78 Mcs. for communication direct with helicopters and search and rescue aircraft, and boats are to keep this frequency when proceeding to the scene of distress.

304. ON ARRIVAL

(a) U.K. Port other than Dockyard Port.

Normal watches will be :-

- One or 2 boats - Reduced S.O.P.'s (Table 22 Line U3)
- Three boats - Two Operator Periods.
- Four or more boats - Constant watch.

(b) Foreign Ports.

Normal watches will be as in (a) above, but if broadcast or CCN cannot be heard or raised, request should be made to route traffic through the nearest Command Coastal Net, times of setting watch being ascertained locally. (c.f. AFO S1 Section H.M. Tables 61B & C and Chapter 27 of Coastal Forces Signal Pamphlet.)

305. ROUTING

If, on arrival, radio communication watch is changed (i.e. from CCN to Telephone, or Broadcast to Local Harbour Frequency etc.) it is essential that the relevant authority (i.e. Command Net Station or Admiralty) be informed so that traffic may be routed accordingly. (AFO S1 Section H.M. paragraph 7 also refers.)

W/T ORGANISATION306. TELEPHONE WATCH

Telephone watch may **only** be kept in ports at home or abroad providing that :-

- (i) No charges are incurred.
- (ii) The telephone is manned continuously.

307 - 9. Spare.

310. COASTAL FORCES H/F FREQUENCIES(a) Table of Frequencies.

The following table lists H/F frequencies used by Coastal Forces. Crystal frequencies for **appropriate** sets are shown for guidance. All in Kcs. All Type A.

Chan No.	Chan Freq.	Xtal Tx	T.C.S. Rx	Xtal Tx	612 Rx	Xtal Tx	619 Rx	USE.
CF 1	1780	1780	2235	-	-	890	2240	As required.
CF 2								Spare.
CF 3	4236.5							As required.
CF 4	8220	2055	2168.75	4110	4342.5	4110	9620	1st Sqdn. Interboat Secondary.
CF 5	8227	2056.75	2170.5	4113.5	4346	4113.5	9627	Inter Sqdn. Secondary.
CF 6	8263	2065.75	2179.5	4131.5	4364	4131.5	9663	2nd Sqdn. Interboat Secondary.
CF 7								} Spare.
CF 8								
CF 9								
CF 10								

(b) Notes on use of table.

(i) Channel numbers are Local only and should be used only within Coastal Forces or by holders of C.F.C.O.'s when operating with Coastal Forces. NO reference to actual frequencies is to be made in Unclassified signals.

(ii) Squadrons should be crystalised as follows :-

- 1st Squadron - CF 4 and 5.
- 2nd Squadron - CF 5 and 6.

(c) Labelling of Crystals.

All crystals held onboard are to be labelled neatly with the following information :-

- (i) Crystal frequency.
- (ii) Output frequency.
- (iii) C.F. No.

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311. COASTAL FORCES V/UHF FREQUENCIES

(a) Table of frequencies

(a) The following table shows V/UHF frequencies used by Coastal Forces. Boats are to carry 2 crystals for each VHF frequency and are to crystalize their sets in accordance with this table. Channel frequencies are shown in Mcs. Crystal frequencies in Kc/s.

Chan No:	Chan. Freq.	Crys. 86M Type A TX	Crys. 86M RX	Crys. 1936 Type B	86M Button	1936 Button	S4 Chan. Ltr.	Use.
CF 11	128.7	7150	8335.71	6610	A	A	-	CIP Primary.
CF 12	137.34	7630	8356.00	7090	B	B	F	Ship/Air Exercise (FRU Primary.)
CF 13	143.28	7960	8205.00	7420	C	C	J	ASP Primary.
CF 14	121.5	6750	8423.08	6210	D	D	D	Int. Air Distress.
CF 15	116.1	6450	8007.69	5910	-	E	-	Scene of Action.
CF 16	129.42	7190	8387.14	6650	-	F	I	Alt. Ship/Air Exercise (FRU Alternate.)
CF 17	140.58	7810	8036.25	7270	-	G	-	Ship/NAS World Wide.
CF 18	142.02	7890	8126.25	7350	-	H	-	RN/USN Combined Net.
CF 19	134.64	7480	8176.00	6940	-	I	K	ASP Alternate.
CF 20	107.46	5970	8678.18	-	-	-	-	CIP Alternate.
CF 21	138.78	7710	8452	7170	-	J	P	SAR Scene of Action.
CF 22	277.8	- 691	Channel 2					2nd Squadn. Interboat Primary.
CF 23								Spare.
CF 24								Spare.
CF 25	279.4	- 691	Channel 5					Inter Squadron Primary.
CF 26								Spare.
CF 27								Spare.
CF 28	281.2	- 691	Channel 8					1st Squadron Interboat Primary.
CF 29	282.1	- 691	Channel 9					Harbour Primary, kept by Central and Gilkicker.
CF 30								Spare.

(b) Notes on use of table

(i) Channel numbers are Local only and should be used only within Coastal Forces or by holders of Coastal Forces Communication Orders when operating with Coastal Forces. No reference to actual frequencies is to be made in Unclassified signals.

(ii) The above table lists the only V.H.F. frequencies available to Coastal Forces. Authorities requiring Fast Patrol Boats to operate on other frequencies are requested to provide crystals if possible or give sufficient notice for these to be drawn from S.N.S.O. Risley.

(c) Labelling of Crystals

All crystals held onboard are to be labelled neatly with the following information:-

- (i) Crystal frequency.
- (ii) Output frequency.
- (iii) C.F. No.

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312. Spare.

313. CALLSIGNS

(a) W/T Callsigns

The International W/T Callsigns as laid down in A.C.P. 113 are normally to be used on C.W. circuits unless otherwise ordered.

(b) Voice Callsigns

(i) The following callsigns are only to be used for inter squadron working:

1st Squadron - Bulldogs 1 to 4
2nd Squadron - Pumas 1 to 4
Trials Squadron - Breakdown 1 to 4.

(ii) Voice callsigns on all other occasions will be those derived from NCCP4.

314. EMERGENCY AERIALS.

(a) M/F, H/F Transmitter

One length of Patt. 611 cable and 4 glass insulators are to be kept in the W/T Office for use as aeriels in emergency.

(b) M/F, H /F Receiver

One length of Patt. 611 cable is to be kept in the W/T Office for use as receiving aerial.

(c) V/UHF

All boats are to have one emergency aerial for 86M (or 1936) and one for Type 691. Instructions on how to construct them can be obtained from the Base W/T Office.

315. W/T OPERATORS LOGS

W/T Operators Logs are to be kept correctly at all times and will be called in at irregular intervals for perusal by the Staff Communications Officer.

316. Spare.

317. Spare.

18. MOBILE W/T VAN

One self-propelled W/T van is available for use as a mobile headquarters while boats are operating from advanced or temporary bases.

The following equipment is fitted:-

- 1 Type 89Q transmitter.
- 1 Type T.C.S. 24V D.C.
- 1 Type 86M.
- 1 Type 691 transmitter and Receiver CUH.
- 1 CR 300 Receiver.
- 1 B.28 Receiver.

19. SETS FITTED IN COASTAL FORCES CRAFT - CAPABILITIES

<u>Type</u>	<u>Freq. Range.</u>	<u>Power Output</u>		
		<u>C.W.</u>	<u>H.C.</u>	<u>Voice</u>
612 F. Tx.	1.5 - 13 Mc/s.	50W	25W	25W.
B46 Rx.	1.4 - 15 Mc/s.			
B47 Rx.	15 - 500 Kc/s.			
T.G.Y.	375 - 500 Kc/s.	50W	25W	15W.
	1.2 - 8.3 Mc/s.			
618/619 Tx.	330 - 550 Kc/s.	15W	15W	
	1.5 - 16 Mc/s.	40W	40W	40W.
618 Rx.	60 - 550 Kc/s.			
	1.5 - 30 Mc/s.			
619 Rx.	60Kc/s - 32 Mc/s.			
CR 300	15Kc/s - 25 Mc/s.			
B.40	650Kc/s - 30 Mc/s.			
86M	100 - 156 Mc/s.			8W.
T.R. 1936 (Trials only).	115 - 145 Mc/s.			3 ¹ / ₂ W.
691	277 - 283 Mc/s.		10W	10W.

SECTION IV

TRAINING

Article No.1 - Officers

V/S exercises are transmitted daily for Midshipmen at 0825 (8 w.p.m.) and for First Lieutenants at 0900 (12 w.p.m.).

The number of exercises to be read will be according to the following scale:-

1st week of term	2 exercises.
Subsequent weeks	Over 90% previous week 1 exercise
	85% - 90% " " 2 exercises
	Under 85% " " 4 "

The number of exercises read by Commanding Officers is left to their own discretion, but they are strongly advised to read at least one per week.

Article No.2 - V/S Ratings

(a) All V/S ratings are to read a total of 8 Flashing and Semaphore exercises per month.

(b) W/T Ratings

All W/T ratings below the rate of Petty Officer are to read Flashing and Semaphore exercises transmitted by HORNET at 0900 daily as governed by the following scale:-

1st week of term	2 exercises.
Subsequent weeks	Over 95% 1 exercise.
	90% - 95% 2 exercises.
	Under 90% 4 exercises.

ART 1...Insert new para end of article.

Buzzer exercises are transmitted for officers in the W/T training room as follows:-

0845	Monday	8 WPM
0845	Wednesday	10WPM.
0845	Friday	10WPM.

Article No.3 - W/T Ratings

- (a) The following Portsmouth Command Orders are to be complied with:-
- (i) All W/T ratings below the rate of Leading Telegraphist are to read a total of eight exercises a month.
- (ii) The only excuse for not so doing will be Sickness or absence of H.M.S. HORNET for more than 20 days in any one month.
- (iii) The fact that ratings had other necessary ship's duties should not excuse them, nor does the fact that the boat may be fuelling or refitting or on the slips etc., in these cases the Telegraphist is to go aboard another boat, or report in good time to the Wireless Office.
- (iv) Exercises missed owing to leave periods and other absences subject to the limitations in paragraph (ii) are to be made up on return, if necessary two or more exercises per day being read to achieve this.
- (b) M.T.Xs. are transmitted by H.M.S. MERCURY - callsign G.Z.U. - on 1875 kc/s

Monday to Friday	0845	Class one.
	0915	Class one.
	0935	Class two.
	1000	Class two. TWO.
	1130	Class two.
	1330	Class two.
	1535	Class four.

When completed exercises are to be handed in to the P.O. Tel. or his deputy in the Wireless Office, who will mark them and publish the results in the Weekly Communications Memo.

Article No.4 - Communication exercises and Training

- (a) Other communication exercises will be promulgated weekly in the HORNET training programme and the weekly Communication Memo. No rating is excused any of these exercises without his C.O.'s permission. C.Os. are requested not to keep their Telegraphists from these exercises unless absolutely necessary, and are requested to inform Staff Communications Officer in writing with reasons when this is found necessary.
- (b) All communications training will normally take place between 0830 and 1030. Telegraphists will be available for boat's duties at all other times. If a boat is proceeding to sea during a forenoon the Telegraphist is automatically excused from participating in exercises.

ART 3 (A) Add at end of sentence - These are to read as far as movements will allow on a basis of 2 per week and not all left to the end of month, this avoids unforeseen circumstances preventing ratings from completing quota.

Article No.5 - Touch-Typing

The touch-typing classroom in Wasp Block is open daily for the use of ratings, and is also to be used for the reading of M.T.Xs.

In order to maintain a high proficiency of touch typing, ratings are strongly advised to make full use of this facility.

Article No.6 - Daily Tests

Daily tests of all sets are to be carried out with HORNET - callsign ~~George X-ray~~ - at 0830. Watch is to be set initially on 8220 kc/s.

Erie Connor.

When all craft have netted in they will be shifted as ordered to other Coastal Forces frequencies.

Article No.7 - Practical Exercise Results

These will be promulgated monthly in P.T.Ms. showing the order of merit of all ships in the Portsmouth Command.

Article No.8 - Recognition

In Portsmouth Command, one week per month is allocated as Command Area Recognition Week. Single letter identities only are to be used.

It is the responsibility of Commanding Officers to collect the appropriate extracts daily from the Staff Office prior to proceeding to sea.