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ADMIRALTY FLEET ORDER

(“S” SERIES)

**S.14—Instructions for Tape Relay and
Routeing Line Segregation**

(R.N. Supplement No. 2 to A.C.P. 127 (B))

**THIS ORDER SUPERSEDES S. 14/60 on
1st FEBRUARY 1962**

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**ADMIRALTY FLEET ORDER
("S" SERIES)**

ADMIRALTY, S.W.1.

12th January, 1962.

The following Order having been approved by My Lords Commissioners of the Admiralty is hereby promulgated.

Copies of this Order are supplied to Commonwealth Navies but only for official use by these Navies and such of their contractors, under seal of secrecy, as may be engaged on a defence project. Disclosure to any other authority or release to the Press or in any other way is forbidden. The information should be safeguarded under rules designed to give the same standard of security as maintained by Her Majesty's Government in the United Kingdom.

By Command of their Lordships,



*To Commanders-in-Chief, Flag Officers,
Senior Naval Officers, Captains and
Commanding Officers of H.M. Ships
and Vessels.*

Note.—A note on the Fleet Order System and the scale of distribution of issues is given in "Admiralty Fleet Orders—Instructions and Quarterly Index."

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CONTENTS

<i>Chapter</i>	<i>Title</i>
1	General Instructions.
2	Examples of Procedure to be used by Stations directly connected to a T.A.R.E.
3	Examples of Procedure to be used by Stations on a Tape Relay Network, but <i>NOT</i> directly connected to a T.A.R.E.
4	Examples of Procedure to be used by Stations on a Switched Teleprinter Network, and by all other Stations not using Transmission Identification (Channel Numbers).
5	Examples of the Procedure to be used for the Transmission of Commercial Traffic.

CHAPTER 1

GENERAL INSTRUCTIONS

<i>Paragraph</i>	<i>Title</i>
101	Introduction.
102	Contents of this Order.
103	Stations connected to a T.A.R.E.
104	Start of Message Functions.
105	Responsibilities of Operators and Routers.
106	Special Groups and Machine Functions used with Routeing Line Segregation.
107	Ensuring the Continuity of Traffic.
108	Telegraphic Automatic Relay Equipments (T.A.R.E.).
109	The United Kingdom Switched Teleprinter Network (D.T.N.).
110	Punctuation.
111	Example Details.
112	Basic Message Layout.
113	Relay Responsibilities.

CHAPTER 1

GENERAL INSTRUCTIONS

101. Introduction

a. Though the Routeing Line Segregation method remains in force certain international agreements and the results of experience in operating the Admiralty S.T.R.A.D. have necessitated changes to the procedure laid down in S.14/60 which became effective on 1st February, 1960.

b. Routeing Line Segregation is the method of routeing employed throughout the Commonwealth Naval Tape Relay Network, and on manually switched teleprinter circuits. The Commonwealth Army, Air Force and N.A.T.O. networks also employ the Routeing Line Segregation method, thus enabling the transfer of traffic between all four networks with the minimum of delay.

c. The Signal Transmitting, Receiving and Distributing systems (S.T.R.A.D.) is the Royal Navy version of the internationally accepted abbreviation T.A.R.E. (Telegraphic Automatic Relay Equipment) which title covers all variations made by different firms or used by different nations.

102. Contents of this Order

a. Examples of various messages, in amplification of those in A.C.P. 127, are given as follows:—

Chapter 2. As prepared by stations who are directly connected into a T.A.R.E.

Chapter 3. As prepared by all other stations on a tape relay network.

Chapter 4. As prepared by stations on a switched teleprinter network, and all other stations not using Transmission Identification (Channel Numbers).

b. The procedure for the transmission of commercial traffic is given in Chapter 5.

103. Stations connected to a T.A.R.E.

At present only the more important United Kingdom stations and Malta are connected into S.T.R.A.D. but when Mauritius becomes operational many other Fixed Service stations will be directly connected and come under the provisions of Chapter 2. None of the above alters the fact that any signal made by any station may pass through T.A.R.E. on its route to various addressees.

104. Start of Message Functions

a. Internationally agreed Start of Message functions for tape relay are not yet finalised, but within the Commonwealth Naval networks the following will be used:—

(1) LTRSZCZC.—For use when feeding directly into S.T.R.A.D. This ensures the equipment recognises that there is a message about to enter the system, and also meets the requirement that it shall not appear again in the one message, since though it is conceivable that ZCZC could appear in an off-line encrypted message, LTRSZCZC cannot.

(2) 5LTRS 2CR 1LF.—Used by other stations on a tape relay network. This ensures that the distant printer starts up and is in the correct case and alignment.

b. In addition to the above 5SPACES 2CR 1LF is the Start of Message function agreed for use on switched teleprinter networks, and by other stations not using transmission identification.

105. Responsibilities of Operators and Routers

a. *Transmission Identification (Channel Numbers).*—Is to appear in line 1 of all messages transmitted by stations on a tape relay network, whether directly connected to a T.A.R.E. or not. It is to consist of the appropriate three-letter station designator, as laid down in Part 7 of B.R. 1978, followed by the channel letter, A through F, followed by a three-figure number. The numbers to commence at 001 at 0001z daily, the whole indicating the number of messages passed in one direction on a specific channel between two stations.

b. *The Basic Routeing Line.*—This line is to consist of the precedence prosign repeated and the routeing indicators of all stations responsible for accomplishing delivery or refile. As multiple call messages flow through the tape relay system, the basic routeing line will change to include only those routeing indicators pertinent to each transmission. No other alteration is to be made to the remainder of the message tape; transmission instructions not pertinent to a particular transmission are to be disregarded by the receiving station.

c. *Station Serial Numbers.*—This is to appear in line 3 of every message, following the routeing indicator of the station originating the message. It is to consist of three figures followed by the slant sign and the day of the month expressed as two figures. The numbers are to start at 001 at 0001z (or the time the station sets watch) daily. Station serial numbers may only be used as references between on-net stations concerned with that message.

d. *Line 7 and 8 Routeing.*—Any multi-call message which includes the routeing indicator of a station outside the Commonwealth Navy Network (*e.g.* N.A.T.O., Army, R.A.F., etc.) in its basic routeing line, is to employ the line 7 and 8 routeing method. This means that the routeing indicator of the station required to effect delivery, followed by an oblique stroke, will precede each addressee in the address component. Examples may be found in A.C.P. 127 and in this Order.

e. *Filing Time.*—Is to appear on every message, and is to consist of the date followed by a slant, followed by the time expressed as G.M.T.

106. Special Groups and Machine Functions used with Tape Relay Procedure

a. *LTRSZCZC.*—This group is to precede every message transmitted into Telegraphic Automatic Relay Equipments, and will appear only once in any message.

b. *5LTRS 2CR 1LF.*—Is the start of message function out of a T.A.R.E. in addition to its use by other tape relay stations. Apart from the advantages of correct alignment it also ensures that on a page printer each new message will not start on the same line as the NNNN of the previous transmission.

c. *Security Warning Prosigns.*—The appropriate Security Warning Prosign is to appear in line 1 of every message transmitted, on its own teleprinter line. Prosigns and meanings are:—

HH This message is to be transmitted by approved means only.

UU This message may be transmitted by non-approved means.

d. *NNNN.*—This group preceded by 8 line feeds and followed by 12LTRS is to appear at the end of every message transmitted; it is a trigger group, signifying the end of a message to automatic equipments.

107. Ensuring the Continuity of Traffic

a. The responsibility for the continuity of received numbers rests with the station receiving the traffic. It is the responsibility of the receiving operator to ensure that a transmission is received under each number and that numbers are not duplicated or omitted. Open numbers shall be reported as they occur by procedure message (ZFX) and queried at frequent intervals thereafter (ZFX ZAR.2) when no reply has been received.

b. To facilitate the transmission of channel checks (Number comparisons) between stations that are connected by only one channel, or by multi-channels where selection of individual channels can be controlled, a self-addressed abbreviated service message will be used. The channel check is prepared as a pre-cut tape and held at the operating position for immediate transmission when needed. The self-addressed channel check will be made by the receiving station when no transmission has been received over a particular channel for a period of 30 minutes. This procedure will be used only by stations on a tape relay network. Below is an example of a self-addressed channel check as made by a station directly connected to a T.A.R.E. Other tape relay stations not connected directly to a T.A.R.E. will use the same format but in line 1, in place of LTRSZCZC they will make 5LTRS 2CR 1LF.

LTRSZCZCEBAA032	5SPACES 2CR 1LF
UU	2CR 1LF
PP RNDPD	2CR 1LF
DE RNDPD	2CR 1LF
CHANNEL CHECK RYRYRYRYRYRYRYRYRYRYRY	2CR 1LF
ABCDEFGHIJKLMN OPQRSTUVWXYZ 1234567890	2CR 8LF
NNNN	12LTRS

108. Telegraphic Automatic Relay Equipments

When using any form of T.A.R.E. it is vitally important that certain procedural components up to line 3 and also in line 15 are prepared absolutely correct, as these components are used to trigger switching mechanisms in the equipment. Example of message format showing switching functions underlined:—

<u>LTRSZCZCECAA124</u>	5SPACES <u>2CR 1LF</u>
<u>UU</u>	<u>2CR 1LF</u>
<u>RR</u> Space RNDPC RNTP	<u>2CR 1LF</u>
<u>DE</u> RNDPP (Remainder of message)	
	THEN:—
01/1230Z	<u>2CR 8LF</u>
<u>NNNN</u>	<u>12LTRS</u>

109. The United Kingdom Switched Teleprinter Network (D.T.N.)

This network is at present a manual switched network, but the procedure shown in this Order allows for the D.T.N. to be converted into a manual or automatic tape relay system without a further change in procedure. The only exception to this is that when the D.T.N. converts to "Tape Relay", broadcast procedures on switchboards will no longer be possible.

110. Punctuation

a. Punctuation is to be signalled using the appropriate abbreviation or symbol as shown below:—

<i>Punctuation</i>	<i>Abbreviation</i>	<i>Symbol</i>
Colon		:
Comma		,
Hyphen		-
Paragraph	PARA	
Brackets		()
Full stop		.
Question mark		?
Quotation marks	QUOTE UNQUOTE	
Oblique stroke		/

b. Punctuation is not to be used in the message heading except the oblique stroke and hyphen symbols.

111. Example Details

The examples used in this Order show as far as possible genuine authorities with their correct indicators and the normal manner of routing. However, various slight differences may be required in actual operational messages since certain station orders in such communication centres as Whitehall Wireless and Mauritius Wireless will obviously depend on local conditions.

112. Basic Message Layout

a. The layout of two messages, an Unclassified message and an Off-line Encrypted message, is shown below. Line numbers in the basic message format are shown, and also functional keys, the use of which must be strictly adhered to.

Basic Message Format

(1) An Unclassified message, as sent on a switched teleprinter network:—

<i>Line</i>	<i>Contents</i>	<i>Functional Keys</i>
1	Start of Message functions	5SPACES 2CR 1LF
1	Security Warning Prosign	UU
2	Basic Routing Line	RR RNDPC RNTP
3	Calling Station/Serial No.	DE RNDPPS 012/12
4	Transmission Instructions	RNDPC T HMS EAGLE
5	Precedence and D.T.G.	R 121212Z
6	Originator	FM HMS MERCURY
7	Action Addressee	TO HMS EAGLE
8	Info Addressee	INFO ADMIRALTY
		CINC MED
11	Separative Sign	BT
12	Classification Text	UNCLASSIFIED TEXT
13	Separative Sign	BT
15	Filing Time	12/1214Z
		NNNN
		12LTRS

(2) An Off-line Encrypted message, as sent by a tape relay station connected to a T.A.R.E.:—

1	Start of Message functions	LTRSZCZCFABA109	5SPACES 2CR 1LF
1	Security Warning Prosign	UU	2CR 1LF
2	Basic Routing Line	RR RNDPC RNDPCR	2CR 1LF
3	Calling Station/Serial No.	DE RNTPCR 205/04	2CR 1LF
4	Transmission Instructions	RNDPC T 39QW —	2CR 1LF
5	Precedence D.T.G.	R 041235Z	2CR 1LF
10	Group Count	GR 45	2CR 1LF
11	Separative Sign	BT	2CR 1LF
12	Text (GROUPS)	GROUPS	2CR 1LF
13	Separative Sign	BT	2CR 1LF
15	Filing Time	04/1307Z	2CR 8LF
		NNNN	12LTRS

113. Relay Responsibilities

With the exception of "Broadcast" messages on the D.T.N. (paragraph 411), it will be seen in the examples in Chapters 2 to 5 that the basic routing line consists of only the routing indicators of the particular stations concerned with that transmission. A station receiving a message with routing indicators other than its own in the basic routing line is responsible for onward relay of that message.

CHAPTER 2

EXAMPLES OF PROCEDURE TO BE USED BY STATIONS DIRECTLY
CONNECTED INTO A T.A.R.E.*Paragraph*

- 201 An Unclassified Message from one R.N. Authority in the United Kingdom to another.
- 202 A Classified Message from an R.N. Authority in the United Kingdom to a Commonwealth Naval Shore Authority Abroad.
- 203 A Multiple Address Message from an R.N. Authority Abroad to another R.N. Authority Abroad, and to an R.N. Authority in the United Kingdom.
- 204 Flash and Emergency Messages.
- 205 A Mis-routed Message.

Examples of procedures used with other types of messages not shown in this Chapter are to be found in Chapters 3, 4 and 5. Similar procedure is to be used by stations feeding directly into a T.A.R.E. with the exception of Start of Message functions.

Stations who are directly connected into a T.A.R.E. will always employ the Start of Message functions LTRSZCZC, and then use the same procedure as other stations from the transmission identification onwards.

CHAPTER 2

EXAMPLES OF PROCEDURE TO BE USED BY STATIONS DIRECTLY
CONNECTED INTO A T.A.R.E.

201. An Unclassified Message from one R.N. Authority in the United Kingdom to another

a. C.-in-C. Portsmouth has an Unclassified message for F.O.S.T.

b. C.-in-C. Portsmouth's Minor Relay feeds directly into the Admiralty S.T.R.A.D., F.O.S.T. does not.

As Prepared and Transmitted by Portsmouth Minor Relay

LTRSZCZCECAA015	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPXL	2CR 1LF
DE RNDPPC 021/12	2CR 1LF
R 120935Z	2CR 1LF
FM CINC PORTSMOUTH	2CR 1LF
TO FOST	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
12/0950Z	2CR 8LF
NNNN	12LTRS

c. The message is then passed from S.T.R.A.D. to the Admiralty Tape Relay Centre and thence out to F.O.S.T. on the appropriate tape relay circuit.

202. A Classified Message from an R.N. Authority in the United Kingdom to a Commonwealth Naval Shore Authority Abroad

a. F.O. Scotland has a Confidential message for C.-in-C. Med.

b. Rosyth and Malta both feed directly into the Admiralty S.T.R.A.D.

As Transmitted by Rosyth Minor T.R.C.

LTRSZCZCEHAA008	5SPACES 2CR 1LF
HH	2CR 1LF
RR RNTP	2CR 1LF
DE RNDPRC 010/10	2CR 1LF
R 101010Z	2CR 1LF
FM FO SCOTLAND	2CR 1LF
TO CINC MED	2CR 1LF
BT	2CR 1LF
C O N F I D E N T I A L TEXT	2CR 1LF
BT	2CR 1LF
10/1030Z	2CR 8LF
NNNN	12LTRS

c. The message is transmitted direct from the Admiralty S.T.R.A.D.

As Received at Malta

DAUA035	5LTRS 2CR 1LF
EHAA008	2CR 1LF
	5SPACES 2CR 1LF
HH	2CR 1LF
RR RNTP	2CR 1LF
DE RNDPRC 010/10	2CR 1LF
R 101010Z	2CR 1LF
Etc.	

203. A Multiple Address Message from an R.N. Authority Abroad to another Abroad, and to an R.N. Authority in the United Kingdom

a. H.M.S. FALCON has an Unclassified message for Com. Hong Kong and F.O. Air Home.

b. The message is passed over the Malta Switched Teleprinter Network to Malta Comcen., who then relays the message over Fixed Service 15, directly into the Admiralty S.T.R.A.D. as follows:—

LTRSZCZCFABA014	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPLC RNMPGN	2CR 1LF
DE RNTPPK 008'12	2CR 1LF
R 121212Z	2CR 1LF
FM HMS FALCON	2CR 1LF
TO FO AIR HOME	2CR 1LF
INFO COM HONGKONG	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
12/1230Z	2CR 8LF
NNNN	12LTRS

c. If this signal were concerned with aircraft movements, line 6 would read FM NAS HAL FAR. (S.9/61, paragraph 405 b refers.)

d. The message is then passed direct from the Admiralty S.T.R.A.D. to F.O. Air Home as follows:—

EENA021	5LTRS 2CR 1LF
FABA014	2CR 1LF
UU	5SPACES 2CR 1LF
RR RNDPLC	2CR 1LF
DE RNTPPK 008'12	2CR 1LF
Etc.	2CR 1LF

e. The message is also passed from the S.T.R.A.D. up to the Admiralty T.R.C. and thence to Hong Kong via Fixed Service 6, using normal tape relay procedure.

204. Flash and Emergency Messages

a. The following is an example of a Flash message from Admiralty to C.-in-C. Med.

As Prepared by Admiralty

LTRSZCZCDAUA031	5SPACES 2CR 1LF
UU	2CR 1LF
FigsJJJJSSSSLtrsZZ RNTP	2CR 1LF
DE RNDPC 056/08	2CR 1LF
Z 081000Z	2CR 1LF
FM ADMIRALTY	2CR 1LF
TO CINC MED	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
08/1002Z	2CR 8LF
NNNN	12LTRS

b. A receipt is then given by Malta Comcen. as follows:—

LTRSZCZCFABA028	5SPACES 2CR 1LF
UU	2CR 1LF
FigsJJJJSSSSSLtrsZZ RNDPC	2CR 1LF
DE RNTP	2CR 1LF
R Z DAUA 031	2CR 1LF
08/1004Z	2CR 8LF
NNNN	12LTRS

205. A Misrouted Message

a. The following is an example of a Single Call message from Admiralty to F.O. Scotland incorrectly routed to Plymouth.

As Transmitted by Admiralty

LTRSZCZCEEGA062	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPDC	2CR 1LF
DE RNDPC 073/23	2CR 1LF
R 231315Z	2CR 1LF
FM ADMIRALTY	2CR 1LF
TO FO SCOTLAND	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
23/1343Z	2CR 8LF
NNNN	12LTRS

As Transmitted by Plymouth to Rosyth via S.T.R.A.D.

LTRSZCZCEBAA036	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPRC	2CR 1LF
ZOV RNDPDC	2CR 1LF
EEGA062	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPDC	2CR 1LF
DE RNDPC 073/23	2CR 1LF
Etc.	

As Finally Received at Rosyth

EELA059	5LTRS 2CR 1LF
EBAA036	2CR 1LF
UU	5SPACES 2CR 1LF
RR RNDPRC	2CR 1LF
ZOV RNDPDC	2CR 1LF
EEGA062	2CR 1LF
UU	5SPACES 2CR 1LF
RR RNDPDC	2CR 1LF
DE RNDPC 073/23	2CR 1LF
Etc.	

CHAPTER 3

EXAMPLES OF PROCEDURE TO BE USED BY TAPE RELAY STATIONS
NOT CONNECTED INTO A T.A.R.E.*Paragraph*

- 301 An Unclassified Message from one R.N. Authority in the United Kingdom to another.
- 302 A Classified Message from an R.N. Authority in the United Kingdom to a Commonwealth Naval Shore Authority Abroad.
- 303 A Message addressed to British Commonwealth Army or Air Force Authorities. (Calling Station holds C.R.I.B.).
- 304 A Multiple Address Message to an R.N. Addressee and an Army Addressee. (Calling Station does NOT hold C.R.I.B.).
- 305 A Message addressed to Allied Authorities.
- 306 A Service Message.
- 307 A Procedure Message.
- 308 A Misrouted Message.
- 309 A Missent Message.
- 310 Flash and Emergency Messages.
- 311 A Multiple Address Message alternatively routed over the Commonwealth Naval Tape Relay Network.

CHAPTER 3

EXAMPLES OF PROCEDURE TO BE USED BY TAPE RELAY STATIONS
NOT CONNECTED INTO A T.A.R.E.

301. An Unclassified Message from one R.N. Authority in the United Kingdom to another

a. F.O.S.M. (RNDPXM) has an Unclassified message for S.N.O.N.I. (RNDPXF).

As Passed to Admiralty T.R.C.

	5LTRS 2CR 1LF
EFFA089	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPXF	2CR 1LF
DE RNDPXM 091/13	2CR 1LF
R 131034Z	2CR 1LF
FM FOSM	2CR 1LF
TO SNONI	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
13/1050Z	2CR 8LF
NNNN	12LTRS

As Passed by Admiralty T.R.C. to S.N.O.N.I.

	5LTRS 2CR 1LF
EFTA030	5LTRS 2CR 1LF
EFFA089	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPXF	2CR 1LF
DE RNDPXM 091/13	2CR 1LF
Etc.	

302. A Classified Message from an R.N. Authority in the United Kingdom to a Commonwealth Naval Shore Authority Abroad

a. F.O.S.T. (RNDPXL) has a Confidential message for Commodore Hong Kong (RNMPGN).

b. Reference to B.R. 1978, Part 5, shows that Commodore Hong Kong is not listed in the authorities with approved channels or circuits, therefore the message must be encrypted before being transmitted to Hong Kong. However, as F.O.S.T. has no crypto facilities, the message must be passed to his Crypto Guard for normal encrypted traffic (*i.e.* Admiralty) and transmission instructions for Admiralty to pass to Hong Kong must be given in line 4.*As Passed by F.O.S.T. to Admiralty*

	5LTRS 2CR 1LF
EFOA109	5SPACES 2CR 1LF
HH	2CR 1LF
RR RNDPCR	2CR 1LF
DE RNDPXL 120/21	2CR 1LF
T	2CR 1LF
R 210956Z	2CR 1LF
FM FOST	2CR 1LF
TO COM HONG KONG	2CR 1LF
BT	2CR 1LF
CONFIDENTIAL TEXT	2CR 1LF
BT	2CR 1LF
21/1001Z	2CR 8LF
NNNN	12LTRS

c. Admiralty encrypts and transmits the message to Com. Hong Kong over Fixed Service 6 as follows:—

DAFA086	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNMPGN	2CR 1LF
DE RNDPCR 056/21	2CR 1LF
R 210956Z	2CR 1LF
GR 156	2CR 1LF
BT	2CR 1LF
GROUPS	2CR 1LF
BT	2CR 1LF
21/1029Z	2CR 8LF
NNNN	12LTRS

d. Singapore passes the message to Hong Kong as follows:—

FDCA055	5LTRS 2CR 1LF
DAFA086	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNMPGN	2CR 1LF
DE RNDPCR 056/21	2CR 1LF
Etc.	

e. For use of suffix designator letters C, CF, CR, etc., see A.C.P. 121, paragraph 611 g, and page 44a of B.R. 1978.

303. A Message addressed to British Commonwealth Army or Air Force Authorities. (Calling Station holds C.R.I.B.)

a. Certain shore authorities (generally those of Flag rank only) are issued with "The Commonwealth Routeing Indicator Book (Gateway Stations)", short title C.R.I.B.(GS), to enable them to through route messages into other service networks. When such messages are through routed, delivery responsibilities are included in Basic Message Format, lines 7 and 8, to indicate which station has to deliver the message to the authorities addressed.

b. Flag Officer Medway (RNDPXG) has an Unclassified message for RAFCOMCEN Aden and H.Q. Southern Military District, New Zealand Army.

c. Reference to C.R.I.B.(GS), pages 2-1 and 2-6, show that the routeing indicators for these authorities are RPVD and RGYBS respectively (for normal routeing).

d. The message is prepared by F.O. Medway and transmitted to Admiralty for transfer into the appropriate networks as follows:—

EAAA087	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RGYBS RPVD	2CR 1LF
DE RNDPXG 093/21	2CR 1LF
R 212245Z	2CR 1LF
FM FO MEDWAY	2CR 1LF
TO RGYBS/H.Q. SOUTHERN MILITARY DISTRICT	2CR 1LF
N.Z. ARMY	
INFO RPVD/RAFCOMCEN ADEN	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
21/2301Z	2CR 8LF
NNNN	12LTRS

Note. (1) Admiralty will transfer the message into the Army and R.A.F. sections, who will forward it via their channels to the addressees.

(2) Action is being taken to include all information contained in C.R.I.B. (GS) in parts 9 and 10 of B.R. 1978.

304. A Multiple Address Message to an R.N. Addressee and an R.A.F. Addressee.
(Calling Station does NOT hold C.R.I.B.(GS).)

- a. (1) Authorities who do NOT hold C.R.I.B.(GS) are to route messages addressed to other services, to the transfer station of that service listed in Part 8 of B.R. 1978.
- (2) Delivery instructions for other service addressees are to be shown in lines 7 and 8.
- (3) When R.N. addressees are included in such messages, delivery instructions will also be included for such addressees in lines 7 and 8.

b. Combrax Devonport has a Restricted message for A.H.Q. Floriana Malta and Flag Officer Gibraltar. The message is transmitted to Admiralty for onward transmission. It will be routed to the R.A.F. transfer station in the United Kingdom (RPDP) for A.H.Q. Floriana and to Gibraltar (RNFP) for F.O. Gibraltar:—

	5LTRS 2CR 1LF
EFAA021	5SPACES 2CR 1LF
HH	2CR 1LF
RR RNFP RPDP	2CR 1LF
DE RNDPXJ 030/17	2CR 1LF
R 171352Z	2CR 1LF
FM COMBRAX DEVONPORT	2CR 1LF
TO RNFP/FO GIBRALTAR	2CR 1LF
INFO RPDP/AHQ FLORIANA	2CR 1LF
BT	2CR 1LF
R E S T R I C T E D T E X T	2CR 1LF
BT	2CR 1LF
17/1355Z	2CR 8LF
NNNN	12LTRS

c. Admiralty segregates the basic routeing line, and transmits the message to Gibraltar over Fixed Service 16, and to the R.A.F. Primary Relay Station (United Kingdom).

305. A Message addressed to Allied Authorities

a. Messages addressed to Allied authorities (*e.g.* N.A.T.O. authorities) are to be routed to the area major or Primary station with transfer facilities, with transmission instructions included in lines 7 and 8 of the Basic Message Format.

b. C.N.D. Haslemere has a Restricted message for CINCEASTLANT and ISCOMFAEROES. The message is routed to Admiralty with transmission instructions in lines 7 and 8.

	5LTRS 2CR 1LF
EFIA011	5SPACES 2CR 1LF
HH	2CR 1LF
RR RNDPC	2CR 1LF
DE RNDPXD 018/21	2CR 1LF
R 210956Z	2CR 1LF
FM CND HASLEMERE	2CR 1LF
TO RNDPC/CINCEASTLANT	2CR 1LF
RNDPC/ISCOMFAEROES	2CR 1LF
BT	2CR 1LF
NATO R E S T R I C T E D T E X T	2CR 1LF
BT	2CR 1LF
21/0959Z	2CR 8LF
NNNN	12LTRS

306. A Service Message

a. A Service message is one between Communication Centres pertaining to any phase of traffic handling or engineering control.

b. A Service message:—

- (1) May contain any of the components listed in the Basic Message Format.
- (2) Is prepared for transmission in plaindress, abbreviated plaindress, or codress form, in accordance with the rules.
- (3) Is identified by the abbreviation "SVC" as the first word of the text, following the security classification.
- (4) Must bear a drafting and releasing officer's signature.
- (5) Is assigned a precedence. Normally it will be the same as that of the message or service to which it refers.
- (6) Is classified in accordance with the current regulations.

c. The following is an example of a Service message from Admiralty to the M.S.O. Northwood (R.N.).

EEQA011	5LTRS 2CR 1LF
HH	5SPACES 2CR 1LF
RR RNDPXA	2CR 1LF
DE RNDPC 047/21	2CR 1LF
R 211110Z	2CR 1LF
BT	2CR 1LF
R E S T R I C T E D S V C T E X T	2CR 1LF
BT	2CR 1LF
21/1112Z	2CR 8LF
NNNN	12LTRS

307. A Procedure Message

a. A Procedure message is one between operators in connection with traffic handling, *e.g.* reruns, corrections, replies and circuit continuity checks. The text is to contain only prosigns, operating signals, addressee designations, identification of messages or parts of messages, and amplifying data as necessary.

b. A Procedure message:—

- (1) Contains Basic Message Format lines 1, 2, 3 (less station serial number), 12 and 15.
- (2) Does not require a drafting or releasing officer's signature.

c. The following is an example of a Procedure message from Admiralty to Combrax Devonport:—

EEJA029	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNDPXJ	2CR 1LF
DE RNDP	2CR 1LF
ZES 1 EFAA 003	2CR 1LF
17/0959Z	2CR 8LF
NNNN	12LTRS

308. A Misrouted Message

a. A Misrouted message is one bearing an incorrect routing instruction.

b. When a station detects a misrouted message, that station shall relay the message onward to the correct station over the most direct route.

c. A Misroute Pilot shall be affixed before the message is relayed onward. The Pilot shall consist of:—

- (1) The appropriate precedence repeated.
- (2) The correct routing indicator of the station to effect delivery or refile.
- (3) The operating signal ZOV.
- (4) The routing indicator of the station preparing the Pilot.
- (5) In the case of multiple address messages, appropriate transmission instructions, if required.

d. The following is an example of Single Call message from F.O.S.T. to F.O. Medway, incorrectly routed to F.O.S/M.:—

As Transmitted by F.O.S.T. to Admiralty T.R.C.

EFOA031	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNDPXM	2CR 1LF
DE RNDPXL 04215	2CR 1LF
R 151515Z	2CR 1LF
FM FOST	2CR 1LF
TO FO MEDWAY	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
15/1518Z	2CR 8LF
NNNN	12LTRS

As Transmitted by F.O.S/M. to Admiralty T.R.C.

EFFA023	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNDPXG	2CR 1LF
ZOV RNDPXM	2CR 1LF
EEZA027	2CR 1LF
EFOA031	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPXM	2CR 1LF
DE RNDPXL 04215	2CR 1LF
R 151515Z	2CR 1LF
FM FOST	2CR 1LF
TO FO MEDWAY	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
15/1518Z	2CR 8LF
NNNN	12LTRS

e. The above procedure will be carried out only under the circumstances outlined in A.C.P. 127, paragraph 418.

309. A Missent Message

a. A Missent message is one which bears a correct routing instruction but has been transmitted to a station other than that indicated.

b. Procedure to be carried out is in accordance with A.C.P. 127, paragraph 419.

310. Flash and Emergency Messages, with Receipts

a. Flash and Emergency precedence shall be indicated in the routing line(s) by ZZ and YY respectively, immediately preceded by the Bell signal, and by Z or Y in the preamble. Flash and Emergency messages shall be processed, transmitted and delivered in the order of receipt and ahead of all other messages. If possible, messages of lower precedence shall be interrupted on all circuits involved until handling of a Flash or Emergency message is completed. Station to Station receipts shall be given.

b. The following is an example of a Flash message from Admiralty to F.O.S.T.:—

EEYA022	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
FIGS JJJJSSSS LTRS ZZ RNDPXL	2CR 1LF
DE RNDPC 139/09	2CR 1LF
Z 091313Z	2CR 1LF
FM ADMIRALTY	2CR 1LF
TO FOST	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
09/1314Z	2CR 8LF
NNNN	12LTRS

c. This message is passed from Admiralty M.S.O. to Admiralty T.R.C. who receipts, and passes out to F.O.S.T.

d. A receipt is then given by F.O.S.T. to Admiralty T.R.C.:—

EFOA017	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
FIGS JJJJSSSS LTRS ZZ RNDP	2CR 1LF
DE RNDPXL	2CR 1LF
R Z EEYA 022	2CR 1LF
09/1315Z	2CR 8LF
NNNN	12LTRS

311. A Multiple Address Message alternatively routed over the Commonwealth Naval Tape Relay Network

a. Admiralty has an Unclassified message for C.-in-C. F.E.S. (RNMPXA) and A.C.N.B. (RNYPXN).

b. Fixed Service 2 is temporarily out and Admiralty therefore decide to route the message through Singapore to Australia.

c. Singapore agree to accept traffic for Australia, and the message is transmitted by Admiralty to Singapore on Fixed Service 6 as follows:—

DAFA110	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
OO RNMPXA RNYPXN	2CR 1LF
DE RNDPC 307/13	2CR 1LF
O 131313Z	2CR 1LF
FM ADMIRALTY	2CR 1LF
TO CINC FES	2CR 1LF
ACNB	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
13/1319Z	2CR 8LF
NNNN	12LTRS

d. Singapore Wireless segregate the basic routing line, and transmit the message on Fixed Service to Canberra Wireless, and to C.-in-C. F.E.S. as follows:—

<i>To Canberra</i>	<i>To C.-in-C. F.E.S.</i>	
		5LTRS 2CR 1LF
FDBA031		5SPACES 2CR 1LF
UU	UU	2CR 1LF
OO RNYPXN	OO RNMPXA	2CR 1LF
DE RNDPC 307/13	DE RNDPC 307/13	2CR 1LF
O 131313Z	O 131313Z	2CR 1LF
FM ADMIRALTY	FM ADMIRALTY	2CR 1LF
TO CINC FES	TO CINC FES	2CR 1LF
ACNB	ACNB	2CR 1LF
BT	BT	2CR 1LF
Etc.	Etc.	

CHAPTER 4

EXAMPLES OF PROCEDURE FOR STATIONS ON A SWITCHED
TELEPRINTER NETWORK AND NOT DIRECTLY CONNECTED INTO
THE TAPE RELAY SYSTEM*Paragraph*

- 401 An Unclassified Message from one R.N. Authority in the United Kingdom to another.
- 402 A Classified Message from an R.N. Authority in the United Kingdom to another, and to three Commonwealth Naval Shore Authorities Abroad.
- 403 A Message addressed to a Ship connected to the D.T.N.
- 404 A Message addressed to British Commonwealth Army or Air Force Authorities. (Calling Station holds C.R.I.B.)
- 405 A Multiple Address Message to an R.N. Addressee and an Army Addressee. (Calling Station does not hold C.R.I.B.)
- 406 A Message addressed to Allied Authorities.
- 407 A Service Message (SVC).
- 408 A Procedure Message.
- 409 Flash and Emergency Messages.
- 410 A Broadcast Message.

CHAPTER 4

**EXAMPLES OF PROCEDURE FOR STATIONS ON A SWITCHED
TELEPRINTER NETWORK AND NOT DIRECTLY CONNECTED INTO
THE TAPE RELAY SYSTEM**

401. An Unclassified Message from one R.N. Authority in the United Kingdom to another

a. A.S. Portsmouth (RNDPPP) has an Unclassified message for C.-in-C. Portsmouth (RNDPPC).

b. Having obtained connections through the D.T.N. switchboard(s), and obtained the answer back, A.S. Portsmouth transmits the message as follows:—

	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPPC	2CR 1LF
DE RNDPPP 016/16	2CR 1LF
R 161616Z	2CR 1LF
FM AS PORTSMOUTH	2CR 1LF
TO CINC PORTSMOUTH	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
16/1621Z	2CR 8LF
NNNN	12LTRS

402. A Classified Message from an R.N. Authority in the United Kingdom to another, and to three Commonwealth Naval Shore Authorities Abroad

a. A.S. Portsmouth (RNDPPP) has a Confidential message for A.S. Devonport (RNDPDD), A.S. Gibraltar (RNFP), F.O. Malta (RNTP), and Commodore Hong Kong (RNMPGN).

b. Reference to B.R. 1978, Part 5, shows that:—

- (1) A.S. Portsmouth can transmit messages up to Secret in P/L over the D.T.N.
- (2) A.S. Devonport can receive messages up to Secret in P/L over the D.T.N.
- (3) A.S. Gibraltar can receive messages up to Top Secret in P/L from Admiralty via Fixed Service 16.
- (4) F.O. Malta can receive messages up to Top Secret in P/L from Admiralty via Fixed Service 15.
- (5) Commodore Hong Kong is not listed in Part 5 of B.R. 1978 as having an approved channel, therefore the message must be encrypted before being transmitted to Hong Kong. However, as A.S. Portsmouth has no crypto facilities, the message must be passed to his Crypto Guard for normal encrypted traffic (*i.e.* Admiralty) and transmission instructions for Admiralty to pass to Hong Kong must be given in line 4.

c. A.S. Portsmouth therefore makes two transmissions over the D.T.N.: one to Devonport and the other to Admiralty for onward relay:—

<i>To Devonport</i>	<i>To Admiralty</i>	<i>Functional Keys</i>
		5SPACES
		2CR 1LF
HH	HH	2CR 1LF
RR RNDPDD	RR RNDPCR RNFP RNTF	2CR 1LF
DE RNDPPP 014 21	DE RNDPPP 014 21	2CR 1LF
RNDPCR ZXY2	RNDPCR ZXY2	2CR 1LF
R 210956Z	R 210956Z	2CR 1LF
FM AS PORTSMOUTH	FM AS PORTSMOUTH	2CR 1LF
TO AS DEVONPORT	TO AS DEVONPORT	2CR 1LF
INFO COM HONG KONG	INFO COM HONG KONG	2CR 1LF
AS GIBRALTAR	AS GIBRALTAR	2CR 1LF
FO MALTA	FO MALTA	2CR 1LF
BT	BT	2CR 1LF
CONFIDENTIAL TEXT	CONFIDENTIAL TEXT	2CR 1LF
BT	BT	2CR 1LF
21/0958Z	21/0958Z	2CR 8LF
NNNN	NNNN	12LTRS

Note.—The basic routing line in the two transmissions contain only the R.I.s pertinent to each transmission. The remainder of the message including transmission instructions, if any, is unaltered in both transmissions.

403. A Message addressed to a Ship connected to the D.T.N.

a. Automatic and electronic relay systems are engineered to read only routing indicators in the basic routing line. Therefore, when ships are connected to a teleprinter system and are using their ship's call sign in the basic routing line, messages can only be transmitted direct to them over manual switched systems, *i.e.* the D.T.N. and Malta Island T.P. Network.

b. F.O.F.T. (RNDPXE) has a Restricted message for H.M.S. EAGLE (GKYV) at Devonport. H.M.S. EAGLE is connected to the D.T.N. and is using her international call sign in the basic routing line.

c. F.O.F.T. obtains H.M.S. EAGLE through the D.T.N. manual switchboards and transmits the message as follows:—

	5SPACES 2CR 1LF
HH	2CR 1LF
RR GKYV	2CR 1LF
DE RNDPXE 035/23	2CR 1LF
R 231258Z	2CR 1LF
FM FOFT	2CR 1LF
TO HMS EAGLE	2CR 1LF
BT	2CR 1LF
RESTRICTED TEXT	2CR 1LF
BT	2CR 1LF
23/1303Z	2CR 8LF
NNNN	12LTRS

404. A Message addressed to British Commonwealth Army or Air Force Authorities. (Calling Station holds C.R.I.B.)

a. Certain shore authorities (generally those of Flag rank only) are issued with "The Commonwealth Routing Indicator Book (Gateway Stations)", short title C.R.I.B.(GS), to enable them to through-route messages into other service networks. When such messages are through-routed, delivery responsibilities are included in Basic Message Format lines 7 and 8 to indicate which station has to deliver the message to the authorities addressed.

b. F.O.F.T. (RNDPXE) has an Unclassified message for A.H.Q. Floriana, Malta (RPTKIY) and H.Q. M.E.A.F., Cyprus (RPQPJL).

c. The message is prepared by F.O.F.T. and transmitted to Admiralty over the D.T.N., for transfer into the R.A.F. network, as follows:—

	5SPACES 2CR 1LF
UU	2CR 1LF
RR RPQPJL RPTKIY	2CR 1LF
DE RNDPXE 034/21	2CR 1LF
R 211145Z	2CR 1LF
FM FOFT	2CR 1LF
TO RPQPJL/HQ MEAF	2CR 1LF
INFO RPTKIY/AHQ MALTA	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
21/1148Z	2CR 8LF
NNNN	12LTRS

Note.—Admiralty will transfer the message into the R.A.F. network, who will forward it via their channels to the addressees.

405. A Multiple Address Message to an R.N. Addressee and an Army Addressee.
(Calling Station does not hold C.R.I.B.)

a. (1) Authorities who do NOT hold C.R.I.B. are to route messages addressed to other services, to the transfer station of that service, listed in Part 8 of B.R. 1978.

(2) Delivery instructions for other service addressees are to be shown in lines 7 and 8.

(3) When R.N. addressees are included in such messages, delivery instructions will also be included for such addressees in lines 7 and 8.

b. H.M.S. COLLINGWOOD has a Restricted message for R.E.M.E. (Nairobi) and C.-in-C. Med. The message is transmitted to Admiralty over the D.T.N. for onward transmission. It will be routed to the Army transfer station in the United Kingdom (RGDP) for R.E.M.E. Nairobi and Malta (RNTP) for C.-in-C. Med.:—

	5SPACES 2CR 1LF
HH	2CR 1LF
RR RGDP RNTP	2CR 1LF
DE RNDPPG 024/19	2CR 1LF
R 191352Z	2CR 1LF
FM HMS COLLINGWOOD	2CR 1LF
TO RGDP/REME NAIROBI	2CR 1LF
INFO RNTP/CINC MED	2CR 1LF
BT	2CR 1LF
R E S T R I C T E D TEXT	2CR 1LF
BT	2CR 1LF
19/1355Z	2CR 8LF
NNNN	12LTRS

c. Admiralty segregate the basic routing line, and transmit the message to Malta over Fixed Service 15, and to the Army Primary Relay Station (United Kingdom).

406. A Message addressed to Allied Authorities

a. Messages addressed to Allied authorities (*e.g.* N.A.T.O. authorities), are to be routed to the area Major or Primary station, with transmission instructions included in lines 7 and 8 of the Basic Message Format.

b. H.M.S. MERCURY has a Restricted message for the Naval Signal Schools of Portugal and Italy. The message is routed to Admiralty with transmission instructions in lines 7 and 8.

	5SPACES 2CR 1LF
HH	2CR 1LF
RR RNDPC	2CR 1LF
DE RNDPPS 005/21	2CR 1LF
R 210956Z	2CR 1LF
FM HMS MERCURY	2CR 1LF
TO RNDPC/MARINE LISBON	2CR 1LF
RNDPC/STEMILIT CHAVIARI	2CR 1LF
BT	2CR 1LF
N A T O R E S T R I C T E D T E X T	2CR 1LF
BT	2CR 1LF
21/0959Z	2CR 8LF
NNNN	12LTRS

407. A Service Message

a. A Service message is one between Communication Centres pertaining to any phase of traffic handling or engineering control.

b. A Service message:—

- (1) May contain any of the components listed in the Basic Message Format.
- (2) Is prepared for transmission in plaindress, abbreviated plaindress, or codress form, in accordance with the rules.
- (3) Is identified by the abbreviation "SVC".
- (4) Must bear a drafting and releasing officer's signature.
- (5) Is assigned a precedence. Normally it will be the same as that of the message or service to which it refers.
- (6) Is classified in accordance with the current regulations.

c. The following is an example of a Service message from Admiralty (RNDPC) to H.M.S. MERCURY on the D.T.N.:—

	5SPACES 2CR 1LF
HH	2CR 1LF
RR RNDPPS	2CR 1LF
DE RNDPC 014/21	2CR 1LF
R 210103Z	2CR 1LF
BT	2CR 1LF
R E S T R I C T E D S V C T E X T	2CR 1LF
BT	2CR 1LF
21 0105Z	2CR 8LF
NNNN	12LTRS

408. A Procedure Message

a. A Procedure message is one between operators in connection with traffic handling, *e.g.* reruns, corrections, replies and circuit continuity checks. The text is to contain only prosigns, operating signals, addressee designations, identification of messages or parts of messages, and amplifying data as necessary.

b. A Procedure message:—

- (1) Contains Basic Message Format lines 1, 2, 3, 12 and 15.
- (2) Does not require a drafting or releasing officer's signature.

c. The following is an example of a Procedure message from Admiralty (RNDPC) to S.P.D.C. Eaglescliffe (RNDPAE) on the D.T.N.:—

	5SPACES 2CR 1LF
UU	2CR 1LF
RR RNDPAE	2CR 1LF
DE RNDPC	2CR 1LF
INT ZDK 282311Z	2CR 1LF
29/0247Z	2CR 8LF
NNNN	12LTRS

409. Flash and Emergency Messages with Receipts

a. Flash and Emergency precedence shall be indicated in the routing line(s) by ZZ and YY respectively, immediately preceded by the bell signal, and by Z or Y in the preamble. Flash and Emergency messages shall be processed, transmitted and delivered in the order of receipt and ahead of all other messages. If possible, messages of lower precedence shall be interrupted on all circuits involved until handling of a FLASH or EMERGENCY message is completed. Station to Station receipts shall be given in accordance with A.C.P. 127 Commonwealth Supplement.

b. An example of a FLASH message from Flag Officer Flying Training to R.N.A.S. Lossiemouth:—

	5SPACES 2CR 1LF
UU	2CR 1LF
FIGS JJJJSSSS LTRS ZZ RNDPXO	2CR 1LF
DE RNDPXE 020/10	2CR 1LF
Z 101010Z	2CR 1LF
FM FOFT	2CR 1LF
TO NAS LOSSIEMOUTH	2CR 1LF
BT	2CR 1LF
UNCLASSIFIED TEXT	2CR 1LF
BT	2CR 1LF
10/1012Z	2CR 8LF
NNNN	12LTRS

c. A receipt is then given by R.N.A.S. Lossiemouth as follows:—

	5SPACES 2CR 1LF
RNDPXE DE RNDPXO R Z 101010Z AT 1016Z AKS AR	

410. A Broadcast Message

a. The only occasion when receiving station(s) is(are) not responsible for onward relay to the remainder of the routing indicators shown in the basic routing line, is when use is made of the broadcast facilities on a manually switched network (e.g. D.T.N.). Such a message will however be preceded by the word "Broadcast" immediately preceding the basic routing line.

b. C.-in-C. Portsmouth (RNDPPC) has a general message for transmission to D.T.N. stations in the Portsmouth Command:—

	5SPACES 2CR 1LF
BROADCAST	2CR 1LF
HH	2CR 1LF
RR RNDPPF RNDPPG RNDPPM RNDPPP	2CR 1LF
RNDPPS RNDPPW	2CR 1LF
DE RNDPPC 078/08	2CR 1LF
R 081132Z	2CR 1LF
FM CINC PORTSMOUTH	2CR 1LF
TO GENERAL AT PORTSMOUTH	2CR 1LF
BT	2CR 1LF
RESTRICTED TEXT	2CR 1LF
BT	2CR 1LF
08/1137Z	2CR 8LF
NNNN	12LTRS

CHAPTER 5

PROCEDURE FOR THE TRANSMISSION OF COMMERCIAL TRAFFIC

<i>Paragraph</i>	<i>Title</i>
501	General.
502	Refiling Commercial Messages.
503	Example of a Radiotelegram to a Warship.
504	Example of a Radiotelegram from a Merchant Ship.
505	Example of a Ship Letter Telegram.
506	Example of a Radiotelegram to a Merchant Ship (through a Relay Station) as received in Whitehall W/T.
507	Example of a “ TR ”.
508	Example of an Unpaid Service Advice.
509	Predetermined Responsibilities.

CHAPTER 5

PROCEDURE FOR THE TRANSMISSION OF COMMERCIAL TRAFFIC

501. General

a. Whenever possible, commercial messages are to be transmitted in batches, and not intermingled with other traffic. Transmission should not be held up, however, in order to accumulate a batch.

b. Prior to running a batch of commercial traffic, the receiving station is to be notified that this type of traffic is about to be transmitted. The operating signal " QTC " is to be used for this purpose.

c. Commercial messages can never be originated " ON NET ". They are handed in to a commercial office for transmission, either in a ship at sea or a Post Office. Initially, they are always prepared in commercial form and procedure.

d. BW and WB numbers are used solely between Burnham Radio and Whitehall Wireless for inter-office check purposes.

502. Refiling Commercial Messages

a. Commercial messages are to be refiled for transmission over the tape relay network as follows:—

- (1) The message, as originally prepared, is to comprise line 12.
- (2) A new message heading is to be added, only the procedure component being utilised.
- (3) The " Confirmation " element is to be added in line 14. The commercial prosign " COL " is to be used.
- (4) A filing time is to be added in line 15.
- (5) Commercial messages bearing the prefix " URGENT ", " S ", " OBS " or communications relating to the navigation, movements, and needs of ships (sometimes prefixed " MSG "), are to be refiled with the precedence Priority in line 2. All other commercial messages are to be refiled at Routine precedence.

503. Example of a Radiotelegram to a Warship

As Received at Simonstown via Whitehall W/T from Burnham Radio

DAKA185	5LTRS 2CR 1LF
BW316/29	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNVP	2CR 1LF
DE RNDPXY	2CR 1LF
LIVERPOOL 12 19 2144 VIA GYA =	2CR 1LF
FARLEY WARSHIP NEREDE SIMONSTOWNRADIO =	2CR 1LF
MERRY CHRISTMAS HAPPY BIRTHDAY LOVE FROM	2CR 1LF
ALL =	
MUM +	2CR 1LF
COL NEREDE MUM	2CR 1LF
29/2230Z	2CR 8LF
NNNN	12LTRS

504. Example of a Radiotelegram from a Merchant Ship*As Received at Burnham via Whitehall Wireless from Singapore*

WB312/28	5LTRS 2CR 1LF
FDAAI56	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
PP RNDPXY	2CR 1LF
DE RNMP 183/28	2CR 1LF
MMNS CALTEXBOMBAY 10 28 0930	2CR 1LF
GKL QSP VIA GYL =	2CR 1LF
OVERTUK LONDON =	2CR 1LF
308 REVISED LOADING INSTRUCTIONS	2CR 1LF
THROUGH BAHREIN ACKNOWLEDGED =	2CR 1LF
JONES +	2CR 1LF
COL OVERTUK 308 JONES	2CR 1LF
28/1210Z	2CR 8LF
NNNN	12LTRS

505. Example of a Ship Letter Telegram*As Received at Burnham via Whitehall Wireless from Sydney Radio*

WB087/28	5LTRS 2CR 1LF
HCLA/065/28 1006Z	5LTRS 2CR 1LF
LCA029/28	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNDPXY	2CR 1LF
DE RNYPXL	2CR 1LF
GDRQ PIPIRIKI 17 28 0830	2CR 1LF
GKL QSP VIA VIS =	2CR 1LF
SLT =	2CR 1LF
MRS SPOOR 7 MARTINWAY MORDEN SURREY =	2CR 1LF
ALL THE BEST WISHES FOR YOUR	2CR 1LF
BIRTHDAY SARAH LOVE =	2CR 1LF
JANE +	2CR 1LF
COL SPOOR 7 SARAH JANE	2CR 1LF
28/0917Z	2CR 8LF
NNNN	12LTRS

506. Example of a Radio Telegram to a Merchant Ship (through a Relay Station) as received in Whitehall Wireless*As Relayed by Simonstown Wireless to Whitehall Wireless*

FFAA045	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNMP	2CR 1LF
DE RNVP 231/23	2CR 1LF
CAPETOWN 11 23 1230 VIA ZSJ =	2CR 1LF
RP10/- =	2CR 1LF
SMITH PURSER EMPIRESTAR SINGAPORERADIO =	2CR 1LF
WHAT STORES DO YOU REQUIRE =	2CR 1LF
WATSON +	2CR 1LF
COL RP10/- WATSON	2CR 1LF
23/1250Z	2CR 8LF
NNNN	12LTRS

As Relayed by Whitehall Wireless

DAFA327	5LTRS 2CR 1LF
FFAA045	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNMP	2CR 1LF
DE RNVP 231/23	2CR 1LF
CAPETOWN 11 23 1230 VIA ZSJ =	2CR 1LF
RP10/- =	2CR 1LF
SMITH PURSER EMPIRESTAR SINGAPORERADIO =	2CR 1LF
WHAT STORES DO YOU REQUIRE =	2CR 1LF
WATSON +	2CR 1LF
COL RP10/- WATSON	2CR 8LF
NNNN	12LTRS

507. Example of a "TR "

As Received at Burnham via Whitehall Wireless from Malta

WB214/18	5LTRS 2CR 1LF
FABA146	2CR 1LF
UU	5SPACES 2CR 1LF
RR RNDPXY	2CR 1LF
DE RNTP 193/18	2CR 1LF
TR = GKL DE GQSW =	2CR 1LF
CITY OF EXETER 0213S 0836W GRIMSBY QSX	2CR 1LF
FROM 191800Z AREA ONE B =	2CR 1LF
181200Z +	2CR 1LF
COL 0213S 0836W 191800Z ONE B 181200Z	2CR 1LF
18/1724Z	2CR 8LF
NNNN	12LTRS

508. Example of an Unpaid Service Advice

As Received at Burnham via Whitehall Wireless from Ceylon West Wireless

WB216/02	5LTRS 2CR 1LF
FBAA615	5LTRS 2CR 1LF
UU	5SPACES 2CR 1LF
RR RNDPXY	2CR 1LF
DE RNSP 704/02	2CR 1LF
A = GKL DE GZP =	2CR 1LF
ZOS IMI GQSW/CITY OF EXETER = 021330Z +	2CR 1LF
COL 021330Z	2CR 1LF
02/1345Z	2CR 8LF
NNNN	12LTRS

509. Predetermined Responsibilities

The table below gives the relay stations to be used in line 2 of the Basic Message Format when routing commercial messages to stations named in column 3. This responsibility is automatic.

(1) Commercial Area	(2) Relay Station	(3) Area Station	
		Warships	Merchant Ships
1	RNDPC RNDPXY	Admiralty Radio	Burnham Radio
2	RNVP RNVP	Simonstown Radio	Capetown Radio
3	RNSP RNSP	Ceylon Radio	Colombo Radio
5	RNYN RNYNY	Wellington Naval Radio	Wellington Radio
6	RCWNR RCWNR	Vancouver Radio	Vancouver Radio
7	RNYPXH RNYPXL	Harman Radio	Sydney Radio
8	RNMP RNMP	Singapore Radio	Singapore Radio
9	RCEHR RCEHR	Halifax Radio	Halifax Radio

Note.—Admiralty/Burnham use WB as transmission identification letters. Burnham/Admiralty use BW as transmission identification letters.