MTP 1(D), VOLUME II MULTINATIONAL MARITIME TACTICAL SIGNAL AND MANEUVERING BOOK

MAY BE CARRIED IN AIRCRAFT

MARCH 2003



NATO-UNCLASSIFIED

ORIGINAL

ALPHABETICAL AND NUMERAL FLAGS

		ı	ELITABETIOA					
PENNANT and NAME	Spoken	Written	FLAG and NAME	Spoken	Written	FLAG and NAME	Spoken	Written
A	ALFA	A -	M	MIKE	_M	Y	YANKEE	_• <u>~</u>
В	BRAVO	В —•••	N	NOVEMBER	N •	Z	ZULU	_ Z
C	CHARLIE	_ · _ ·	0	OSCAR		ONE	ONE	1
D	DELTA		P	PAPA	P •——•	TWO	TWO	2
E	ECHO	E •	Q	QUEBEC	Q	THREE	THREE	3
F	FOXTROT	F ••—•	R	ROMEO	R •—•	FOUR	FOUR	4
G	GOLF	_ G •	S	SIERRA	S	FIVE	FIVE	5
Н	HOTEL	Н	T	TANGO	_	SIX	SIX	6
	INDIA	l ••		UNIFORM	·•-	SEVEN	SEVEN	7
J	JULIETT	•— <u>J</u>	V	VICTOR	···—	EIGHT	EIGHT	8
K	KILO	K	W	WHISKEY	• <u>W</u>	NINE	NINE	9
L	LIMA	·— · ·	X	XRAY	X	ZERO	ZERO	Ø

MTP 1(D), Vol. II

April 2004 PUBLICATION NOTICE **ROUTING** 1. Change 1 to MTP 1(D), Volume II, MULTINATIONAL MARITIME TACTICAL SIGNAL AND MANEUVERING BOOK, is available in the Navy Warfare Library. The effective date will be promulgated by the Commander, Navy Warfare Development Command, for U.S. Navy holders. 2. MTP 1(D), Volume II, contains releasable data from ATP 1(D), Volume II. Data that is considered not releasable has been omitted in text and replaced with the label NOT RELEASABLE. 3. Summary of Change 1: a. Editorial and terminological corrections were made to update data. b. SIGNAL CM39 was expanded. c. New technology was incorporated (i.e., infrared damage assessment). d. SIGNAL RE26 was added to enhance counterterrorism measures. e. TURN J was expanded to prevent confusion in maneuvering the HVU/MEU. f. SCREEN O examples were amended to illustrate the allocation of individual sectors, areas, stations, or patrol lines.

Navy Warfare Library Custodian

Navy Warfare Library publications must be made readily available to all users and other interested personnel within the U.S. Navy.

Note to Navy Warfare Library Custodian

This notice will assist you in providing information to cognizant personnel. It is not accountable.

MTP 1(D), Vol. II

INTENTIONALLY BLANK

NORTH ATLANTIC TREATY ORGANIZATION NATO STANDARDIZATION AGENCY (NSA) NATO LETTER OF PROMULGATION

January 2003

- 1. MTP-1(D) Volume II MULTINATIONAL MARITIME TACTICAL SIGNAL AND MANOEUVERING BOOK is an UNCLASSIFIED Multinational Manual (MM) composed directly from unclassified portions of ATP-1(D) Volume II. The agreement of NATO nations for the promulgation and release of this publication is recorded in STANAG 1174.
- 2. The aim of MTP-1(D) Volume II is to provide NATO and co-operating nations with a user friendly coherent publication forming common doctrine to conduct multinational exercises and operations.
- 3. MTP-1(D) Volume II is effective on a date to be promulgated by the NSA. When made effective it shall supersede MTP-1(C) Volume II which shall be destroyed in accordance with the local procedure for the destructions documents.
- 4. This MM may be released to a non-NATO nation by a NATO nation or Command, on a need to know basis, without further authorisation from the NSA or NATO Headquarters. This MM shall not be released by any non-NATO nation. The releasing nation is responsible for:
 - Providing updates of the publication to receiving nations as required.
 - b. Informing NSA when distributing this MM to other nations.
 - c. Informing the receiving nation of the NATO effective date of the parent publication.
- 5. This MM shall not be posted on any freely accessible information or media facility unless previously and expressly approved by the Naval Bcard on case-by-case basis.
- 6. MTP-1(D) Volume II contains tactical doctrine and procedures derived directly from ATP-1(D) Volume II. Changes proposal may be submitted by any nations either through a sponsoring NATO nation or directly to US as the NATO Custodian.

Jan H ERIKSEN Rear Admiral, NONA Director

MTP 1(D), Vol. II

INTENTIONALLY BLANK

RECORD OF RESERVATIONS

CHAPTER	RECORD OF RESERVATIONS BY NATIONS
1	NONE
2	US
3	NONE
4	NONE
5	NONE
6	NONE
7	NONE
8	NONE
9	NONE
10	NONE
11	NONE
12	NONE
13	NONE
14	NONE
15	NONE
16	NONE
17	NONE
18	NONE
19	NONE
20	NONE
21	NONE
22	NONE
23	NONE
24	NONE
25	NONE
26	NONE
27	NONE
28	NONE
29	NONE
30	NONE
31	NONE
32	NONE
33	NONE
34	NONE
35	NONE

RECORD OF RESERVATIONS

,	
NATION	SPECIFIC RESERVATIONS
US	The U.S. Navy does not agree with the meaning of Flag K, and will operate using the meanings listed below. Since the meanings are different from those used by other NATO warships, U.S. commanding officers must take extra care when in port, or at anchorages in which NATO warships are present, to ensure that all concerned understand the requisite precautions that must be taken with personnel working aloft, over the side, or both: a. K Personnel working aloft. Stand clear. b. K1 Personnel working over the side. Stand clear. c. K3 Personnel working aloft and over the side. Stand clear.



DEPARTMENT OF THE NAVY

NAVY WARFARE DEVELOPMENT COMMAND 686 CUSHING ROAD NEWPORT RI 02841-1207

March 2003

U.S. LETTER OF PROMULGATION

- 1. MTP 1(D), Volume II, MULTINATIONAL MARITIME TACTICAL SIGNAL AND MANEUVERING BOOK, is NATO-UNCLASSIFIED. Handle in accordance with the administrative procedures contained in NTTP 1-01.
- 2. Commander, Navy Warfare Development Command will promulgate the effective date of MTP 1(D), Volume II, for Department of the Navy Holders.
- 3. A. Multinational Manual may be released to a non-NATO nation of a command on a need-to-know basis, without further authorization from NWDC, per the accompanying NATO Letter of Promulgation. Inform NWDC by message of any release to non-NATO nations.
- 4. This Multinational Manual shall not be posted on any freely accessible information or media facility.

R. A. ROUTE

NOTE TO U.S. HOLDERS — Report administrative discrepancies by letter to Navy Warfare Development Command. Order a hardcopy publication by MILSTRIP or through the Navy Supply System's Print on Demand (POD) program.

MTP 1(D), Vol. II

INTENTIONALLY BLANK

RECORD OF CHANGES

Identification of Change, Reg. No. (if any), and Date	Date Entered	NATO Effective Date	By Whom Entered (Signature; Rank, Grade or Rate; Name of Command)
Change 1	10/18/04	12/1/04	9hMh 65-12 NWDC
	,		

RECORD OF CHANGES

Identification of Change, Reg. No. (if any), and Date	Date Entered	NATO Effective Date	By Whom Entered (Signature; Rank, Grade or Rate; Name of Command)

Multinational Maritime Tactical Signal and Maneuvering Book

CONTENTS

Page Fiche No. Frame* CHAPTER 1 — GENERAL INSTRUCTIONS 100 1B13 101 1B13 102 1B13 103 1B14 104 1C1 105 1C2 110 1C3 111 1C3 112 1C4 113 1C5 114 1C6 115 1C6 116 1C6 117 1C7 118 1C7 119 1C8 120 PRINCIPAL RULES FOR MANEUVERING. 1-13 1C9 121 1C9 122 1C9 123 1C12 124 1C13 125 1C14 126 1C14 127 1C14 128 1D1 129 1D2 130 1D2 131 1D3 132 1D3 133 1D4 134 Restrictions, Limits, and Requirements for Altering Course 1-21 1D5 MANEUVERING ORDERS AND INSTRUCTIONS 1-22 135 1D6 136 1D6 137 1D13

^{*} For microfiche (microfilm) holders only.

		Page No.	Fiche Frame*
		110.	Trame
138	Forming Lines in Consecutive Numerical Order of Sequence	1.20	1D14
139	Numbers		1D14 1E1
140	Altering Line Formations		1E1
141	Formations Derived From Line Formations		1E4
142	Altering Course by Wheeling		1E6
143	Wheeling in Single Column.		1E6
144	Wheeling in Column Open Order		1E6
145	Wheeling in Loose Line of Column		1E6
146	Wheeling in Single Line Abreast		1E7
147	Wheeling in Diamond Formation		1E8
148	Wheeling in Multiple Line Formation		1E8
149	Special Methods for Altering Course		1E11
NOT RELE	EASABLE		
160	MISCELLANEOUS INSTRUCTIONS	1-42	1E14
161	Substitutes		1E14
162	Units of Reference		1F1
163	Fractions.		1F1
164	Times and Dates		1F1
165	Position		1F3
166	Bearing, Direction, and Distance		1F4
167	Courses and Speeds		1F5
168	Standard Sector System		1F5
CHAPTER 2	— SINGLE FLAGS AND PENNANTS		
200	Instructions	2-1	1F10
201	Single Alphabetical Flag Table	2-1	1F10
202	Single Numerical Flag Table	2-7	1G2
203	Single Special Flag Pennant Table	2-8	1G3
204	Absentee Indicator Table (In Port)	2-12	1G7
OLIADTED A	EMERGENOV		
CHAPTER 3	— EMERGENCY		
300	Instructions		2A14
301	Emergency Execute Signal	3-1	2A14
302	Emergency Alarm Signals		2B1
303	Emergency Action Signals	3-5	2B4
CHAPTER 4	— FORM		
400	Instructions	/ 1	2B6
400	Line Formations		2B0 2B7
TU1	Line i officiolis	⊤- ∠	4D /

^{*} For microfiche (microfilm) holders only.

		Page No.	Fiche Frame*
402 403 404	Forming Operational Formations and Dispositions	4-4	2B8 2B9 2B10
405 406 407 408 CHAPTER 5	Loose Line of Column, Diamond Formation, Column Open Order, and Reversing the Order of Ships in Column Line Guides Forming on a Bearing. Miscellaneous Form Signals. Information Signals.	4-6 4-7	2B10 2B11 2B12 2B14
500 501 502 CHAPTER 6	Instructions	5-2	2C4 2C5 2C10
600 601 602 603 604 605 606	General Instructions Turn of Specified Amount Stopping Turn Short of Signaled Amount Turn of Unspecified Amount Miscellaneous Turn Signals Evasive Steering Information Signals.	6-2 6-2 6-2 6-4 6-4	2C14 2D1 2D1 2D1 2D3 2D3 2D3 2D5
700 701 702 703 CHAPTER 8	Instructions	7-3 7-4	2D8 2D10 2D11 2E2
800 801 802	Action Signals	8-5	2E6 2E11 2E13
900 901 902	SCREEN Instructions	9-2	2F2 2F3 2F8

^{*} For microfiche (microfilm) holders only.

		Page No.	Fiche Frame*
CHAPTER 10	—ANTIAIR WARFARE		
1000 1001	AAW Signals		2F12 2F14
CHAPTER 11	I — ADMINISTRATION		
1100 1101 1102 1103 1104 1105	Boats Ceremonial Medical Miscellaneous Orders/Publications Report	11-2 11-3 11-3 11-4	2G4 2G5 2G6 2G6 2G7 2G8
CHAPTER 12	2 — AMPHIBIOUS		
1200 1201	Beaches		2G10 2G10
CHAPTER 13	B — ANTISUBMARINE WARFARE		
1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310	Attack Command Conditions. Contact Countermeasures Equipment. Exercises. Intelligence. Search ASW Searches Defense in Harbor ASW ACTION TABLE	13-3 13-4 13-6 13-8 13-9 13-11 13-13 13-14 13-16 13-18	3A14 3B2 3B3 3B5 3B7 3B8 3B10 3B12 3B13 3C1 3C3 3C4
CHAPTER 14	4 — AIRCRAFT		
1400 1401 1402 1403 1404 1405	Command/Control Emergency Operating Readiness Scouting Over-The-Horizon Targeting	14-2 14-3 14-6 14-6	3C10 3C11 3C12 3D1 3D1 3D2

^{*} For microfiche (microfilm) holders only.

		Page No.	Fiche Frame*
CHAPTER 15	5 — GOVERNING GROUPS		
1500	Table of Meanings	15-1	3D4
CHAPTER 16	6 — COMMUNICATIONS		
1600 1601 1602 1603 1604	Establishing/Maintaining/Closing Down	16-2 16-3 16-4	3D6 3D7 3D8 3D9 3D9
CHAPTER 17	- COMMAND		
1700	General Signals	17-1	3D12
CHAPTER 18	B — ENTRY AND DEPARTURE		
1800 1801 1802 1803 1804	Anchoring/Weighing	18-3 18-3 18-4	3E2 3E4 3E4 3E5 3E6
CHAPTER 19	— ENEMY		
1900 1901 1902 1903	Electronic Warfare	19-1 19-3	3E10 3E10 3E12 3E14
CHAPTER 20	— ELECTRONIC WARFARE		
2000 2001 2002 2003	Emission Control	20-3 20-4	3F2 3F4 3F5 3F6
CHAPTER 21	— EXERCISES		
2100	General Signals	21-1	3F8

^{*} For microfiche (microfilm) holders only.

		Page No.	Fiche Frame*
CHAPTER 22	2 — GUNNERY AND MISSILES		
2200 2201 2202	Ballistic Signals	. 22-2	3F12 3F13 3F14
CHAPTER 23	B — HARASSMENT		
2300 2301	Shadowing, Marking, and Countermarking		3G2 3G2
CHAPTER 24	— INTERDICTION AND EMBARGO OPERATIONS		
2400	General Signals	. 24-1	3G6
CHAPTER 25	5 — METEOROLOGY		
2500	General Signals	. 25-1	3G10
CHAPTER 26	6 — MINE WARFARE		
2600 2601 2602 2603 2604 2605 2606 2607 2608 2609	Safety Measures Mines/Minefields Minelaying Cleared Channel/Area Leadthrough Signals Track Policy Dan Laying/Dan Running Minesweeping Minehunting Tasking and Reporting	. 26-1 . 26-3 . 26-4 . 26-5 26-12 26-13 26-15 26-18	4A14 4A14 4B2 4B3 4B4 4B11 4B12 4B14 4C3 4C6
CHAPTER 27	— NAVIGATION		
2700 2701 2702 2703 2704 2705	Charts/Compasses Conditions Lights Miscellaneous Position/PIM Time.	. 27-1 . 27-2 . 27-2 . 27-3	4D2 4D2 4D3 4D3 4D4 4D5

^{*} For microfiche (microfilm) holders only.

	G	iche me*
— N.B.C.		
Chemical	28-2	4D8 4D9 4D9
— RADAR		
General Signals	29-1 4I	D12
— READINESS		
Damage	30-2 30-4 30-4 30-5 30-6 30-6	D14 4E1 4E3 4E3 4E4 4E5 4E5 4E6
— REPLENISHMENT/TRANSFER		
Signals Relating to Replenishment	31-5 43 31-6	E10 F14 4F1 4F2
— ANTISURFACE WARFARE		
Command	32-2 32-3 32-3 32-4 32-5 32-7 4 32-7 4 32-9 4 32-23 4	4F4 4F5 4F6 4F6 4F7 4F8 F10 F12 G12 A14
	Nuclear Chemical Biological — RADAR General Signals — READINESS Casualties Damage Degrees of Readiness Equipment Readiness Fuel State Miscellaneous Readiness for Sea/Steaming Towing Signal Table — REPLENISHMENT/TRANSFER Replenishment Signals Signals Relating to Replenishment Helicopter Transfer/Vertical Replenishment Signals Night Replenishment — ANTISURFACE WARFARE Attack Command Gunnery and Missile Plan Torpedo TORPEDO ACTION TABLE Special Night Torpedo Firing Signals Special Day Torpedo Firing Signals SURFACE ACTION TABLES Special FPB Maneuvering Signals	No. Fra. Nuclear

^{*} For microfiche (microfilm) holders only.

	Page No.	Fiche Frame*
CHAPTER 33	— TACTICAL	
3300	Attack	5B4
3301	Bearing and Distance	5B5
3302	Intelligence/Data	5B6
3303	Lights	5B7
3304	Miscellaneous	5B8
3305	Mission/Task/Duty	5B9
3306	Movements	5B10
3307	Operations/Intentions	5B14
3308	Identification/Recognition	5C1
3309	Scouting/Patrol	5C2
3310	Smoke/Making Smoke	5C4
3311	Weather/Meteorology	5C5
3312	Hydrography	5C5
CHAPTER 34	— SUPPLEMENTARY TABLES	
3400	Table A — Ammunition and Weapons	5C9
3405	Table B — Battle	5C10
3410	Table C — Command Plans	5C11
3415	Table D — Duty	5C12
3420	Table E — Electronics	5C14
3425	Table F — Forces	5D2
3430	Table L — Compartment Locator	5D4
3435	Table M — Mines	5D5
3440	Table P — Personnel	5D6
3445	Table U — Equipment	5D7
3450	Table V — Aircraft	5D8
3455	Table W — When	5D10
3460	Table X — Exercises	5D11
3465	Table Y — MCM Equipment	5D12
3470	Table Z — Beach	5D13
CHAPTER 35	— STANDARD POSITION INDICATORS	
3500	Table of Meanings	5E2
INDEX		5E4

^{*} For microfiche (microfilm) holders only.

Page Fiche No. Frame*

LIST OF ILLUSTRATIONS

CHAPTER 1 — GENERAL INSTRUCTIONS

Figure 1-1.	Standard Distances and Maneuvering Intervals 1-14	1C11
Figure 1-2.	Turning Distances	1C12
Figure 1-3.	Example Acceleration and Deceleration Table 1-16	1C13
Figure 1-4.	Restrictions, Limits, and Requirements for Altering Course 1-21	1D4
Figure 1-5.	Single Line Formations 1, 2, 3, and 4	1D7
Figure 1-5A.	Formations OSCAR and YANKEE	1D8
Figure 1-6.	Column Open Order and Diamond Formation	1D10
Figure 1-7.	Multiple Line Formation 5, 6, 7, and 8	1D11
Figure 1-8.	Multiple Line Formations 9, 10, 11, and 12 1-27	1D12
Figure 1-9.	SPARE	
Figure 1-10.	Wheeling in Single Column	1E7
Figure 1-11.	Wheeling in Single Line Abreast	1E8
	Wheeling in Multiple Line Formations	1E9
Figure 1-13.	Wheeling With Line Guides Bearing Astern	1E10
Figure 1-14.	Wheeling Lines Simultaneously	1E11
Figure 1-15.	Wheeling Units Simultaneously	1E12
Figure 1-16.	Search Turn	1E14
Figure 1-17.	Sector Methods	1F6

^{*} For microfiche (microfilm) holders only.

MTP 1(D), Vol. II

INTENTIONALLY BLANK

CHAPTER 1

GENERAL INSTRUCTIONS

100	BASIC PRECEPTS
101	Purpose and Scope
102	Security Warning
103	Use and Interpretation
104	Signals Covering More Than One Meaning
105	Signals With No Meaning
110	SUPPLEMENTING SIGNALS
111	Governing Pennants
112	Governing Groups
113	Call Signs, Sequence Numbers, and Unit
	Indicators
114	Description Signals
115	Plain Text
116	Operating Signals
117	International Code of Signals
118	Tables
119	Transmission Other Than by Flaghoist
120	PRINCIPAL RULES FOR MANEUVERING
121	Maneuvering Distances
122	Standard and Reduced Tactical Diameter
123	Acceleration and Deceleration
124	Speeds While Maneuvering
125	Speed Flags
126	Stationing
127	Hoisting Station Numbers by Day
128	Station Keeping
129	Joining and Leaving
130	Guides
131	Automatic Changing of the Guide
132	Unit, Formation, and Line Guides
133	Announcement by the Guide
134	Restrictions, Limits, and Requirements for
	Altering Course
135	MANEUVERING ORDERS AND
133	INSTRUCTIONS
136	Types of Line Formation
137	
138	Assuming Formation Forming Lines in Consecutive Numerical
130	Order of Sequence Numbers
139	Forming Lines in Quickest Sequence
137	Torming Lines in Quickest Sequence

- 140 Altering Line Formations
- 141 Formations Derived From Line Formations
- 142 Altering Course by Wheeling
- 143 Wheeling in Single Column
- 144 Wheeling in Column Open Order
- 145 Wheeling in Loose Line of Column
- 146 Wheeling in Single Line Abreast
- 147 Wheeling in Diamond Formation
- 148 Wheeling in Multiple Line Formation
- 149 Special Methods for Altering Course

150 NOT RELEASABLE

- 160 MISCELLANEOUS INSTRUCTIONS
- 161 Substitutes
- 162 Units of Reference
- 163 Fractions
- 164 Times and Dates
- 165 Position
- 166 Bearing, Direction, and Distance
- 167 Courses and Speeds
- 168 Standard Sector System

100 BASIC PRECEPTS

101 PURPOSE AND SCOPE

The primary purpose of the Allied Maritime Tactical Signal and Maneuvering Book is to facilitate the dissemination of orders and information pertinent to Allied maritime operations. It contains maneuvering signals, standard operational signals, the more common administrative signals, and basic maneuvering instructions. The book is designed for communication between naval ships of all types. It can be used with any method of signaling.

102 SECURITY WARNING

Although this book is classified, a simple unchanging code is used and the groups herein have no security at all. If the method of signaling utilized is subject to interception by any means, great care should be taken to limit the messages to those that contain unclassified information. If security is required, an appropriate cryptographic system must be used.

103 USE AND INTERPRETATION

- a. ARRANGEMENT OF SIGNALS. The signal vocabulary of this book is collected into chapters and arranged under headings for ease of reference. Chapter 2 contains single flag and pennant signals. Chapter 3 contains emergency alarm and emergency action signals. Chapters 4 to 9 contain maneuvering signals utilizing a special pennant. Chapters 10 to 35 contain the main signal vocabulary, which consists of operational and administrative signals arranged alphabetically under appropriate headings. The signal index at the end will assist the user in finding the desired groups when encoding signals. The use of all capital letters in a signal indicates the primary word(s) or phrase(s) under which the signal is indexed. Do not read a word or phrase in all capital letters as part of the signal, unless it is required to complete the meaning of the signal.
- b. ENCODING. To encode a signal, reference should be made first to the signal index where the groups will be found indexed under the key words of the meaning of the group. Reference must then be made to the signal vocabulary chapters, which are indicated by the reference numbers in the index. The meanings in the index are not complete; instructions have been omitted and only the basic meaning is given. For this reason, the index is not to be used separately for encoding signals.
- c. DECODING. To decode a signal, reference should be made to the single flag and pennant chapter, special pennant chapters, or the main signal vocabulary, as applicable, for the basic signal.
- d. SENSE WHEN ACTION IS SIGNALED. A signal from this book ordering an action to be carried out is to be read in its imperative sense if made by a senior; if made by a junior, the signal should read as a request for the action to be carried out by the senior to whom it is addressed.
- e. SPECIAL FLAG AND PENNANT SIGNALS. The special pennant signals in Chapters 4 to 9 are in general arranged so that, for those requiring action, the special pennant precedes the alphabetical flag, and for those signaled for information, the special pennant follows the alphabetical flag. The information signals in Chapters 4 to 9 are not to be repeated or answered unless preceded by a call. Information signals are not to be used to order an action.
- f. SELECTION OF THE APPROPRIATE SIGNAL. The instructions peculiar to the execution of any particular signal are found in this book along with the meaning of the signal. However, the consideration affecting the choice of any particular signal, as well as the restrictions on its use, are contained in Allied Maritime Tactical Procedures and Instructions (Volume I). When required, relevant chapter references are shown as a note against the signal.
- g. SINGULAR AND PLURAL. Groups in this book may be used in either the singular or plural sense.

- h. COMPLETING A SIGNAL. Where a "____" or "as indicated" appears in the meaning of a signal, it is always to be completed with a suffix or supplementing data unless an interrogative sense is implied (e.g., INT AS27). Where a "(____)," an "(as indicated)," or an instruction in parentheses appears, the addition of suffixes or supplementing data is optional. Other instructions are self-explanatory.
- i. NUMERALS. The numerals used with signals in this book represent numeral flags unless it is specifically indicated that they are numeral pennants. Numeral flags are written as digits, e.g., 1, 34; the same numbers by numeral pennants are written as p1, p3p4.
- j. TACKLINE. The tackline is transmitted and spoken TACK and written as a dash " . " It is used:
 - (1) To avoid ambiguity, by separating signals or groups of numerals which, if not separated, could convey a different meaning from that intended.
 - (2) When, for the needs of a particular signal, the instructions order that a tackline be used. When there are more flags in a signal than can be made in a single hoist the signal should be broken into two or more hoists, the breaks being made where TACK would normally be inserted to avoid ambiguity.

Examples: N—STATION... Your movements are not understood. Take proper or assigned station.

RE2—1—48... Prepare to receive 48 personnel casualties.

EMERG Q2—345—10... I am investigating a radar contact still unclassified which might be a submarine, bearing 345°, range 1,000 yards.

104 SIGNALS COVERING MORE THAN ONE MEANING

a. CHAPTER GROUP. A chapter group is a two-letter group allocated to a particular chapter and the main vocabulary from which all signals in that chapter are derived. It is normally formed by the first two letters of the chapter title; but where this is not possible, a self-evident group has been allocated.

Examples: AS...Antisubmarine warfare.

CM... Communications.

EW... Electronic warfare.

b. BASIC GROUP. A basic group is a signal consisting of the chapter group followed by one or more figures, as listed in the signal vocabulary, with no addition whatsoever. As indicated in paragraph 103h, basic groups containing a "____" or "as indicated" in the meaning of the signal may not be used alone.

c. SUFFIXES. Many signals in this book contain a list of numeral and/or letter suffixes in the meaning of the signal. These lists are provided so that the basic meaning can be varied by the use of the appropriate suffix(es). When a suffix is used, it must follow the last figure of the group separated by a TACK. The tackline may be omitted if the omission cannot cause ambiguity.

```
Examples: ED1 . . . Anchor is ____ . (Note this group cannot be used alone, a suffix must be added to complete the meaning.)

ED1—4 . . . Anchor is foul.

TA62 . . . Investigate.

TA62—18 . . . Investigate small boat.
```

 $TA 62-1-8\dots Investigate\ buoy\ and\ lightship\ (tackline\ avoids\ confusion\ with\ 18).$

1R6...I have a bottomed submarine contact.

d. SEQUENCE OF DATA. There are certain signals in which the sequence of the data to be signaled is indicated in the meaning. Except for the last item(s) of such data, NEGAT must be signaled in place of any item that is not being signaled.

```
Examples: 1P... SUBMARINE's bearing, range, depth, course, and speed are as indicated from this unit or unit indicated.
```

- (a) Bearing
- (b) Range in hundreds of yards
- (c) Depth in tens of feet
- (d) Course
- (e) Speed
- (f) Time

1P 125 . . . SUBMARINE's bearing is 125° from this unit.

1P NEGAT 12 . . . SUBMARINE's range is 1,200 yards from this unit.

1P 125 NEGAT NEGAT 320 . . . SUBMARINE's bearing is 125 ° from this unit and its course is 320°.

105 SIGNALS WITH NO MEANING

Type, fleet, and appropriate task organization commanders may assign meanings for signals that presently have no meaning listed in this publication. Meanings for such signals will be promulgated in operation orders for a specific operation, as promulgated by the commander's operation or exercise order.

110 SUPPLEMENTING SIGNALS

The signals from this book may be supplemented or modified by:

- (1) Governing pennants.
- (2) Governing groups.
- (3) Call signs, sequence numbers, and unit indicators.
- (4) Description signals.
- (5) Plain text.
- (6) Operating signals.
- (7) International Code of Signals.
- (8) Tables.

111 GOVERNING PENNANTS

a. TABLE OF MEANINGS.

Pennant	Preceding the Signal				
PREPARATIVE	Prepare to				
INTERROGATIVE	Questions or inquiries.				
NEGATIVE	Cease, do not, or gives a negative sense to an otherwise affirmative or informative statement.				

b. POSITION IN THE SIGNAL. The governing pennant immediately precedes the signal.

Examples: PREP SCREEN H1... Prepare to form sector screen.

PREP TA2—8... Prepare to attack under smoke screen.

INT TA2 . . . *Are you attacking?*

NEGAT TA2 . . . Do not attack, or cease attacking.

- c. USE WITH SEVERAL SIGNALS. When one governing pennant is used with several signals. the following rules apply:
 - (1) ALL SIGNALS. The governing pennant shall govern all signals when separated from the signals by a TACK.
 - (2) ONE SIGNAL ONLY. If the governing pennant is required to govern only one of several signals, it must immediately precede the signal to be governed; other signals must be separated from the governed signal by TACK.

Examples: TA94...Close me.

RS8—1 . . . Replenish ammunition.

AD18... Send medical officer as soon as possible.

- PREP—TA94—RS8—1—AD18... Prepare to close me; prepare to replenish ammunition; prepare to send medical officer as soon as possible.
- PREP—TA94—AD18—NEGAT RS8—1 . . . Prepare to close me; prepare to send medical officer as soon as possible; do not replenish ammunition.
- TA94—PREP RS8—1—NEGAT AD18... Close me; prepare to replenish ammunition; do not send medical officer.

112 GOVERNING GROUPS

a. TABLE OF MEANINGS.

ВА	Action is being carried out (or I am)				
ВВ	Action is completed (or I have)				
ВС	I recommend				
BD	Report time when you will be ready (to)				
BE	Report when ready (to)				
BF	Ready (to) (at)				
BG	My present intention is to				
вн	Request permission to				
ВІ	Action is not being carried out (or I am not)				
BJ	If you desire				
ВК	When you desire				
BL	When ready				
ВМ	Enemy/opponent is or I am being				
ВТ	For use, see Articles 164e and 164g.				
BU	Unable to				
BV	Take action or information as indicated from appropriate supplementary table (see Chapter 34)				
вх	Indicates end of series of groups governed by governing group				
BY	Report when action completed				
BZ	Well done				

b. POSITION IN THE SIGNAL. The governing group, followed by a tackline, precedes the signal and governs that signal only. The governing group may be used alone when no ambiguity will result.

Examples: TA94 . . . Close me.

 $TA2 \dots Attack.$

BB—TA2 . . . Attack completed.

BE—TA2—TA94... Report when ready to attack; close me.

c. USE WITH SEVERAL SIGNALS. When the governing group applies to two or more signals following it, BX is inserted after the last of the signals to which the governing group is to apply.

Examples: TA36...Show no light.

TA88—3 . . . Proceed as previously directed.

ED18... Weigh anchor.

ED54 . . . Leave harbor.

BG—TA36—ED18 BX... My present intention is to show no light and weigh anchor.

TA36—ED18—BE—ED54—TA88—3 BX . . . Show no light; weigh anchor; report when ready to leave harbor and proceed as previously directed.

BK—ED18—TA88—3 BX—BI—ED54... When you desire, weigh anchor and proceed as previously directed; I am not leaving harbor.

BU—26B... Unable to delay enemy.

113 CALL SIGNS, SEQUENCE NUMBERS, AND UNIT INDICATORS

- a. CALL SIGNS AND SEQUENCE NUMBERS. Call signs, address groups, and sequence numbers may be used in conjunction with groups from this book to complete, amplify, or vary the meaning of the signal. Numerals appearing in visual call signs represent numeral pennants, except in the Special Task Organization Calls (ACP 130), where a numeral flag/numeral pennant combination is used. Sequence numbers are represented by numeral flags. The following format is to be used to address or indicate ships, units, or commanders.
 - (1) Call signs indicating ships, units, or commanders referred to in the meaning of the signal follow the entire signal, except for signals indicating bearing and distance from a unit where the call sign appears within the signal (see Article 166).
 - Examples: RE42—8 NEGAT 10 NEGAT NEGAT 25 Cp3p7... Readiness of Cruiser 37 is: 8 antiaircraft guns usable, 10 main battery guns usable, maximum possible speed 25 knots.
 - BG—AD5—8A—Cp3p7...My present intention is to send helicopter to Cruiser 37 for the Admiral.
 - (2) In circumstances where the call does not adequately serve as the address, a call sign may immediately precede a signal in order to specifically address ships, units, or commanders to take the signal for action.
 - Example: All ships, this is the OTC—1—Dp6p7 AS19—2—Dp7 AS18 . . . All ships, this is the OTC: destroyers 6 and 7 form SAU and investigate contact; destroyer 7 assume command as SAU commander.
- b. UNIT INDICATORS. A unit indicator (i.e., FLOT/GROUP, SQUAD, DIV, SUBDIV) following a signal indicates the unit to be used in carrying out the meaning of the signal.

Example: TA2 DIV . . . ATTACK. The attack unit is the DIVISION.

114 DESCRIPTION SIGNALS

Description signals may be used to describe own or enemy forces or to convey other information. A description signal consists of DESIG followed by:

- (1) Numerals indicating how many (if required), and/or
- (2) Single-letter "type" indicator(s) or multiletter "class" designator(s).

Example: EMERG E 345—10 DESIG 3CL2D . . . Enemy surface craft sighted bearing 345° from this ship, distance 10 miles, are two light cruisers and two destroyers.

115 PLAIN TEXT

When appropriate, DESIG followed by letter(s) and/or numerals(s) must be used to indicate that such a group is to be interpreted literally, such as octal numbers used to designate a datum or track number, and not as a coded group. DESIG shall immediately precede the group to be interpreted literally and will govern only that group. When more than one group are to be interpreted literally, DESIG will govern all groups separated from the groups by TACK. Exceptions to this are: when a plain number must be used to complete the meaning of a signal as explained in paragraph 103h (e.g., AV26—3, "I am operating fixed-wing aircraft"); and when used as prescribed in the meaning of the signals contained in Chapter 20. In this way, words may be spelled out within the text of a signal to complete or modify the meaning. Plan indicators, points, numbers, berths, etc., may also be signaled without conflicting with signal groups. DESIG must not be used to signal sectors (see Article 168).

Examples: TA117—3 DESIG CHILE . . . Identity of unit is neutral and of Chilean registry. EX3—5—16 DESIG 2B . . . Exercise 2B is postponed until 1600.

AS19—3 DESIG 3130 . . . Form SAU and investigate datum 3130.

116 OPERATING SIGNALS

The Q and Z Communication Operating Signals contained in ACP 131 may be used alone or to supplement groups from this book. The miscellaneous abbreviations and symbols in Chapter 4, ACP 131, are not to be used by flaghoist or to supplement groups from this book.

Example: CM11—2—ZJD1... Expedite signals by answering more promptly. Use better light.

117 INTERNATIONAL CODE OF SIGNALS

Groups from the International Code of Signals may be used alone or in conjunction with signal groups from this book. Whenever international groups are used alone in a flaghoist, international procedure is to be used in answering.

- (1) Whenever military use is made of the International Code of Signals, groups will be preceded by CODE when transmitted by flaghoist, or INTERCO by Morse, voice, or semaphore.
 - (a) Whenever international signals are used alone, CODE or INTERCO followed by TACK shall be used as the first group to indicate that all groups following are taken from the International Code of Signals. When the signal consists of only one group, TACK may be omitted.
 - (b) Whenever signals from this book are supplemented by a group from the International Code of Signals, CODE or INTERCO shall immediately precede the signal group to indicate that only that group is taken from the International Code of Signals.
 - (c) For flaghoist signaling, a call sign preceding CODE indicates Allied procedure will be used in answering, repeating, questioning, and canceling the display. For multiple signals, a call sign preceding CODE may be hoisted in a superior position and left flying during several succeeding hoists of international code groups. In either case, hauling down the call sign and CODE indicates the end of the message.
- (2) When communicating with non-military ships or stations or non-Allied warships, refer to the International Code of Signals.

118 TABLES

- a. ACTION TABLES. The AAW Action (Flag 7) Table in Chapter 10, the ASW Action (Flag 1) Table in Chapter 13, and the Surface Action (Flags 2, 3, and 4) and Torpedo Action (Flag 9) Tables in Chapter 32 enable the most important and commonly used signals to be made in the shortest possible form. The numeral flag indicator for the table may be left flying in a superior position when successive signals from the same table are being made.
- b. SUPPLEMENTARY TABLES. The Supplementary Tables A, B, C, D, E, F, L, M, P, U, V, W, X, Y, and Z have been included in this publication as Chapter 34. The tables are primarily intended to expand the meaning of certain basic groups, but they may be used with any signal from this publication. When adding an item from supplementary tables to the basic group as indicated in its meaning, the table identifying letter must follow the item number. When a signal from the supplementary tables is used with a basic group that contains alphabetical letters in the suffix, or when alphabetical letters complete the basic group, the governing group, BV, must precede the supplementary table signal in cases where confusion could exist. When a signal from the supplementary tables is used by itself, the governing group, BV, must precede it; except for supplementary table X, were it may be preceded by 2nd substitute. Numeral flags 1 to 9 are not to be used in any supplementary table.

Examples: TA2—11—33A—65F... Attack enemy main body with antiship torpedoes.

M—32W... Disregard my movements during period of flight operations.

BJ—25B... If you desire, operate defensively.

BV—33B... *Investigate and board if necessary.*

- c. SPECIAL PURPOSE SIGNAL TABLES. The following special purpose signal tables have been included in this publication.
 - (1) Optical Guidance (Flag G) Signals Article 2604.
 - (2) Towing Signal (Flag 6) Table Article 3007.
 - (3) Helicopter Transfer/Vertical Replenishment Signals Article 3102.
 - (4) Special Fast Patrol Boat (FPB) Maneuvering Signals Article 3209.
 - (5) SAG Signal Table Article 3210.

119 TRANSMISSION OTHER THAN BY FLAGHOIST

- a. CALL SIGN TRANSMISSION. Each call sign in the text of a signal from this publication sent by Morse or semaphore will be preceded by the visual prosign, "PT overscored," meaning, "Call sign follows." Call signs in the text may be spelled out if conditions make it advisable. In the text of signals sent by radiotelephone, voice call signs may be used when available, or visual call signs, signal letters, or address groups, spoken phonetically, may be used; voice call signs are to be preceded by the words, "Call sign."
- b. MORSE SYMBOLS. At the discretion of the OTC, when conditions and operator's capabilities permit, all of the alphabetical and numerical flags and numeral pennants comprising a signal from ATP 1, Vol. II, may be transmitted as their Morse symbols to expedite signaling.
- c. SUBSTITUTES. Substitutes are used by flashing light or radiotelephone only when expediting a flaghoist preceded by a substitute (ACP 130 series).

MTP 1(D), Vol. II

	MORSE/TELETYPE SEMAPHORE		PHORE	SPOKEN			
Flag-Pennant	Call Sign	Text	Call Sign	Text	Call Sign Text		
A to Z	A to Z	ALFA to ZULU	A to Z	ALFA to ZULU	ALFA to ZULU (See Note)		
1 to 0	1 to 0	ONE to ZERO	ONE to ZERO		ONE to ZERO (See Note)		
p1 to p0	1 to 0	1 to 0	ONE to ZERO		Pennant ONE to Pennant ZERO		
ANSWER		ANS		ANS	ANSWER		
CODE		INTERCO		INTERCO	INTERCO		
CORPEN		CORPEN		CORPEN	CORPEN		
DESIG		DESIG		DESIG	DESIG		
DIVISION	DIV	DIV	DIV	DIV	DIV		
EMERGENCY		EMERG		EMERG	EMERGENCY		
FLOTILLA/ GROUP	FLOT/ GROUP	FLOT/ GROUP	FLOT/ GROUP	FLOT/ GROUP	FLOT/ GROUP		
FORMATION		FORM		FORM	FORMATION		
INTERROGATIVE		INT		INT	INTERROGATIVE		
NEGATIVE		NEGAT		NEGAT	NEGAT		
PREPARATIVE		PREP		PREP	PREP		
PORT		PORT		PORT	PORT		
SCREEN		SCREEN		SCREEN	SCREEN		
SPEED		SPEED		SPEED	SPEED		
SQUADRON	SQUAD	SQUAD	SQUAD	SQUAD	SQUAD		
STARBOARD		STBD		STBD	STARBOARD		
STATION		STATION	STATION	STATION	STATION		
SUBDIVISION	SUBDIV	SUBDIV	SUBDIV	SUBDIV	SUBDIV		
TURN		TURN		TURN	TURN		
SUBSTITUTES	SUBSTITUTES See Article 119c						

Note: When transmitted in their single meaning, alphabetical and numeral flags are to be preceded by the word FLAG.

120 PRINCIPAL RULES FOR MANEUVERING

121 MANEUVERING DISTANCES

- a. UNIT OF DISTANCE. The nautical mile (2,000 yards) is the unit of distance. In circular formations, 1,000 yards is the unit of distance for circle spacing, unless otherwise ordered.
 - b. DISTANCE AND INTERVAL.
 - (1) STANDARD DISTANCE. The distance between adjacent ships in a line is measured between the foremasts or between the navigation bridges of ships without foremasts. For the sake of uniformity, the standard distance between two adjacent ships when formed in a line will be 1,000 yards between large ships (ships over 450 feet in length) and 500 yards between small ships (ships 450 feet long or less) and submarines, unless otherwise ordered. The distance between a large ship and a small ship or submarine will be 1,000 yards or the distance ordered for the large ship. See Figure 1-1.
 - (2) MANEUVERING INTERVAL. The interval between line guides will be the sum of the standard or ordered distances of the longest line, plus the longest single distance in any one line. See Figure 1-1
 - (3) EXTENDED MANEUVERING INTERVAL. Unless otherwise ordered, extended maneuvering interval, which allows for station-keeping errors, will be the maneuvering interval plus 500 yards.

122 STANDARD AND REDUCED TACTICAL DIAMETER

- a. TACTICAL DIAMETER. Figure 1-2 illustrates the turning distances for a ship on a turning circle using constant rudder angle. Tactical diameter is the transfer for a turn of 180°.
- b. SIZE OF DIAMETER. When ships of dissimilar type or size maneuver in the same formation, tactical diameters will be as follows:

Towns on Cine	Tactical Diameter (yards)		
Type or Size	Standard	Reduced	
Carrier present	2,500	1,500	
More than one cruiser or large ship present; logistic or large amphibious ship present	1,200	1,000	
Only one cruiser or large ship present	1,000	800	
Only small ships and submarines present	800	600	

Note: Reduced tactical diameter will be used for turns of unspecified amount and emergency turns.

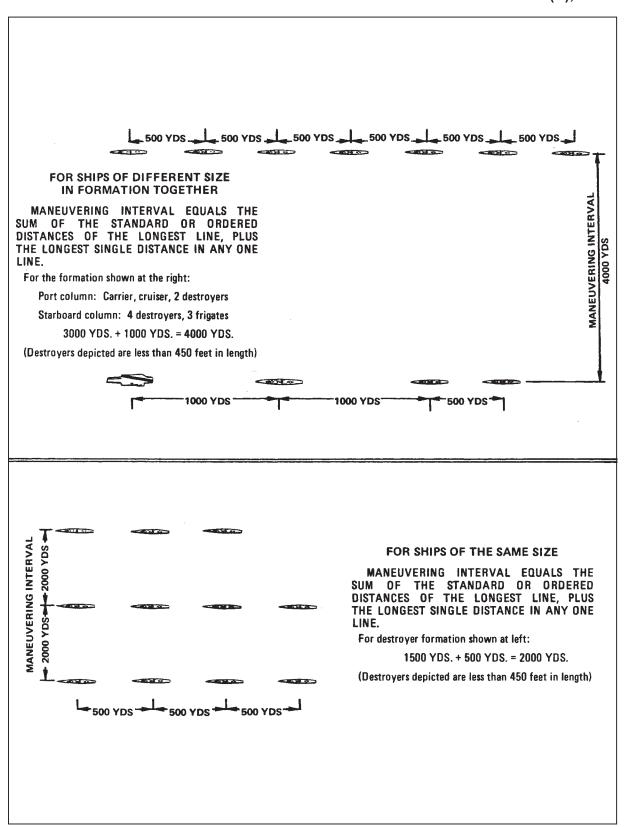


Figure 1-1. Standard Distances and Maneuvering Intervals

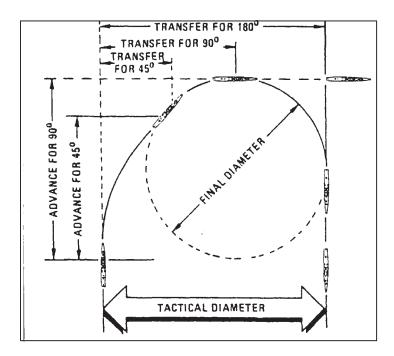


Figure 1-2. Turning Distances

- c. CHANGING SIZE OF DIAMETER. A type or unit commander may, however, order a different standard tactical diameter or a different reduced tactical diameter for his ships.
- d. AMOUNT OF RUDDER USED. For precision in maneuvers, the amount of rudder used by individual ships must be adjusted so that they turn as nearly as possible with the same turning circle as their guide.
- e. DIVERSE FORCES. When diverse ship types of different nationalities are present and confusion could arise, the OTC is to order the sizes of the standard and reduced tactical diameters to be used.
- f. AIRCRAFT CARRIERS. Turns by aircraft carriers may not conform to listed tactical diameter due to flight deck heel constraints during periods of aircraft operations.

123 ACCELERATION AND DECELERATION

- a. CHANGING SPEED. Ships operating together should normally employ uniform acceleration and deceleration rates when changing speed. This is necessary for smoothness of maneuver to facilitate station keeping.
- b. TABLES. The OTC or type commander may prescribe acceleration and deceleration tables as a guide. Figure 1-3 is an example for use by a formation containing one or more aircraft carriers.
- c. EMERGENCY ACCELERATION. Emergency acceleration is to be at double the normal rate prescribed by the OTC; that is, accomplished in one-half the time.

	KNOTS		MINUTES		RATE
	CHANGE OF SPEED		TIME REQUIRED FOR CHANGE	TOTAL ELAPSED TIME	KNOTS PER MINUTE
	FROM	то			
FASTER—	ZERO	15	3	3	5
	15	19	2	5	2
	19	24	5	10	1
AS	24	29	10	20	1/2
	29	31	6	26	1/3
1	31	33	8	34	1/4
SLOWER	33 30 29 27 23 20 18 15	30 29 27 23 20 18 15 ZERO	7 1/2 2 3 4 2 1 1 3	7 1/2 9 1/2 12 1/2 16 1/2 18 1/2 19 1/2 20 1/2 23 1/2	2/5 1/2 2/3 1 1 1/2 2 3 5

Figure 1-3. Example Acceleration and Deceleration Table

124 SPEEDS WHILE MANEUVERING

- a. METHOD OF ORDERING. Operational and stationing speeds will be ordered by signal or issued in orders to the formation. They will also be signaled to any unit joining.
- b. RESERVE SPEED FOR STATION KEEPING. When ships are maneuvering, the signaled speed should be appreciably less than the operational speed, so as to leave a reserve power for taking up and keeping station. On other occasions, one knot less than the operational speed leaves a sufficient margin for station keeping.
- c. ESTABLISHING STATIONING SPEED. The use of a speed slower than operational speed normally enables changes of station to be completed within an acceptable time. This speed, known as stationing speed, should be previously established, either by signal or in operation orders, particularly when substantial economy of fuel will result. Ordering stationing speed does not restrict the OTC from signaling any speed up to operational speed.

- d. SPEED WHEN TAKING OR CHANGING STATION. When a unit being maneuvered in formation by its unit commander needs to increase speed to take or change station, the speed ordered for that unit is normally to be one knot less than stationing speed. Ships needing to increase speed when taking or changing station independently should normally proceed at stationing speed.
- e. CHANGE IN SIGNALED SPEED. When the speed of the Guide is changed by signal during a maneuver involving units taking station on the Guide, ships in the unit being maneuvered are not to change to the Guide's new speed until so ordered by their unit commander.
- f. ROUGH WEATHER. In rough weather, commanding officers are to report to their unit commander on inability to maintain signaled speed without damage and are authorized to reduce speed as necessary.

125 SPEED FLAGS

In order to facilitate station keeping, the speed at which a ship is proceeding may be indicated by small-sized numeral flags displayed from the navigation bridge or by regular-sized flags at the dip from an outboard signal halyard. Speed flags are normally used only when entering or leaving harbor in formation, when minesweeping, or when ordered by the unit commander. They are not to be used for ordering changes in speed, which are always to be signaled.

126 STATIONING

To station a unit is to order it to proceed to a position with reference to the Guide, a geographic position, or an indicated unit. Station is expressed by one of the following methods:

(1) A true bearing and distance.

Example: STATION 170—5 . . . Take station bearing 170° from the Guide, distance 5 miles.

(2) A relative bearing and distance.

Example: STATION STBD 3—D85—5... Take station 30° on the starboard side of (call sign), distance 5 miles.

(3) A general relative area, such as the van or rear — an approximate distance may be included.

Example: STATION C—1... Take station in the van at approximately 1 mile.

(4) A numbered or lettered station on a diagram.

Example: STATION 14... Take station 14.

- (5) The circular method (see ATP 1, Vol. I).
- (6) The sector method (See Article 168).
- (7) The skeleton screen diagram (see Chapter 9).

127 HOISTING STATION NUMBERS BY DAY

When ordered, a ship hoists DESIG followed by her station letter(s) and/or numeral(s) to confirm to the OTC that she has correctly interpreted his stationing instruction and to indicate to adjacent ships the position to which she is proceeding. By hauling down, she indicates that she is in station.

128 STATION KEEPING

- a. MAINTAINING TRUE BEARING.
- (1) ON ARRIVAL IN STATION, a unit is to maintain the true bearing from its guide or indicated unit, even though its station may have been ordered by means of a relative bearing or area. (But see ATP 1, Vol. I, for rescue destroyers.)
- (2) WHEN MAIN BODY ALTERS COURSE WITHOUT SIGNAL to all ships present, stationed units are to maintain true bearings and distances from the units on which stationed.
- (3) UNIT STATIONED BY BEARING FROM A UNIT OF A CIRCULAR FORMATION, rather than by the circular method, is to maintain true bearing from the unit on which stationed when the formation axis is rotated, unless otherwise ordered.
 - b. MANEUVERING REQUIREMENTS.
- (1) WHEN THE GUIDE ALTERS COURSE, the alter course signal addressed to all ships present will instruct stationed units whether they are to maintain true bearings or regain relative bearings.
- (2) UNITS AUTOMATICALLY FORM PART OF THE UNIT ON WHICH STATIONED, for maneuvering purposes, when stationed on the unit at or inside the maneuvering interval or within one mile of a single ship unit.
 - c. TACTICAL REQUIREMENTS.
- (1) WHEN A UNIT CONSISTING OF MORE THAN ONE SHIP TAKES STATION, including one stationed by the circular method, the unit commander is to place his unit in a formation appropriate to the tactical situation, with the unit guide occupying the indicated station.
- (2) WHEN THE OTC SIGNALS A SPECIFIC DUTY, such as "aircraft warning picket," to amplify the stationing signal, the performance of the assigned specific duty takes precedence over accurate station keeping.
 - d. ADJUSTING STATION TO ASSIST VISUAL SIGNALING.
- (1) Commanding officers are authorized to use their discretion in handling their ships to facilitate visual signaling. A ship in line having an urgent signal to pass to the OTC or unit commander may haul out of line sufficiently to do so.
 - (2) Unit commanders may similarly adjust station of their units to facilitate visual signaling.

129 JOINING AND LEAVING

- a. UNITS CLOSING OR REJOINING.
- (1) MEANING OF ORDER TO CLOSE OR REJOIN. An order to close or rejoin means that the unit addressed, except a screen unit, is to come closer to receive further orders. It does not in itself order the unit to take up any particular station. A unit ordered to close or rejoin is not to enter the formation without further orders.
- (2) RESUMING PREVIOUS STATION. Should the OTC desire a unit to resume its previous station, a signal to this effect is available.
- b. UNITS TEMPORARILY DETACHED. A unit temporarily detached is not to act on or to answer maneuvering signals made by the OTC unless its own call sign is specifically included in the address of the maneuvering signal.
- c. UNITS JOINING. The OTC will normally appraise the force of the expected time and general direction of approach of a unit joining. When within range, a unit joining is to establish communications (EMCON permitting) and identify itself to the OTC, who will pass tactical information as required. Information to be exchanged by surface warships joining a formation and the OTC is given in APP 4. During radio silence, the first ship to sight a unit joining is to inform the OTC and pass any required tactical information as directed by the OTC, using a system within the EMCON plan in force.

130 GUIDES

a. DESCRIPTION AND DEFINITION.

- (1) In general terms, a ship on which other ships take station when forming up, or keep station when formed, is a guide. It is called unit guide in a unit consisting of more than one ship; line guide in a line of ships when formed in a multiple line formation; formation guide in a formation of ships; and disposition guide in a disposition.
- (2) When ships are formed in divisions and subdivisions, those ships occupying the corresponding station to the formation guide may be referred to as division and subdivision guides.
- (3) The ship on which all other guides (i.e., unit, line, subdivision, division, and formation guides) or, in the absence of other guides, all ships form up and keep station on, is called the Guide.
- b. OTC'S SHIP. The ship in which the OTC is embarked is the Guide unless otherwise ordered or unless the Guide changes automatically in accordance with Article 131. The OTC's ship may hoist the Guide flag temporarily for identification when the force is forming up or when a unit joins.
- c. DESIGNATED SHIP. A ship (not the OTC's) designated as Guide is to hoist the Guide flag and keep it flying until the Guide is changed. When a formation or disposition diagram indicates the station designated as the Guide's, the ship in that station automatically assumes duty as the Guide and, if she is not the OTC's ship, hoists the Guide flag.
- d. DESIGNATION OF NEW GUIDE. The designation of a new Guide does not in itself order a shift in stations; ships must, therefore, maintain their present positions but keep station on the new Guide.

131 AUTOMATIC CHANGING OF THE GUIDE

The Guide does not automatically change when a new task or type organization is ordered or with a change in tactical command. In a formation, the Guide changes automatically only on the following occasions:

- (1) SHIP BEING FORMED ON becomes the Guide.
- (2) LINE GUIDE OF THE LINE BEING FORMED ON becomes the Guide.
- (3) SHIP BECOMING THE PIVOT SHIP for a maneuver becomes the Guide (see Chapter 7).
- (4) WHEN REVERSING THE ORDER OF SHIPS IN COLUMN FROM THE REAR, the rear ship automatically becomes the Guide.
- (5) WHEN FORMING A LOOSE LINE OF COLUMN, COLUMN OPEN ORDER, OR DIAMOND FORMATION, the leading ship becomes the Guide.
 - (6) WHEN A WHEEL SIGNAL IS EXECUTED:
 - (a) WHEN IN SINGLE COLUMN, the leading ship will be the Guide.
 - (b) WHEN IN DIAMOND FORMATION, the leading ship will be the Guide.
 - (c) WHEN IN MULTIPLE COLUMNS, the leading ship of the pivot column will be the Guide.
- (7) WHEN WHEELING LINES SIMULTANEOUSLY, the leading or pivot ship of the Guide's line becomes the Guide and the leading or pivot ships of the other lines become line guides.
- (8) WHEN ALTERING COURSE BY SEARCH TURN, the wing ship on the side away from the direction of the new course will turn to the course indicated and become the Guide.
 - (9) WHEN THE GUIDE HAULS OUT, the new Guide is as follows:
 - (a) WHEN IN COLUMN, the next ship ahead (if no ship is ahead, the next ship astern).
 - (b) WHEN IN LINE ABREAST OR LINE OF BEARING, the next ship to starboard (if no ship to starboard, the next ship to port).

132 UNIT, FORMATION, AND LINE GUIDES

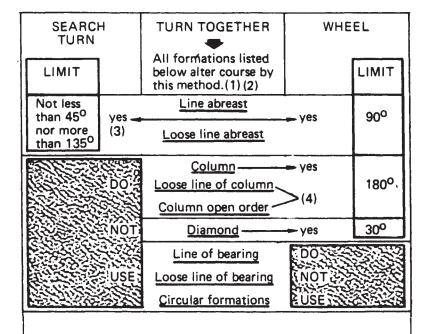
- a. UNIT GUIDE. When within a formation and more than one ship is stationed as a separate unit, the ship designated as unit guide is to keep station on the formation guide; all other ships of the unit are to keep station on the unit guide.
- b. FORMATION GUIDE. A ship in a formation on which the units in the formation take or keep station. When two or more formations form a disposition; the ship designated as formation guide is to keep station on the disposition guide; all other units of the formation are to keep station on the formation guide.
- c. LINE GUIDES. The ship in a multiple line formation which becomes the Guide also becomes guide of its line. All ships occupying stations corresponding to hers in the other lines automatically become line guides; if, in any of the other lines, no ship occupies the corresponding station (due to there being fewer ships in that line), the OTC will designate the line guide. Line guides are to keep station on the Guide; ships in a line are to keep station on the line guide. When a line guide makes the signal to disregard his movements and hauls out of the line, the next ship in the line, or, when the line guide is not at the end of the line, the next ship ahead in a column or to starboard in a line abreast or a line of bearing, becomes the line guide.

133 ANNOUNCEMENT BY THE GUIDE

At night or in low visibility, after execution of a signaled course change, the Guide of a formation may announce, "This is . . . , I am turning to port (starboard)."

134 RESTRICTIONS, LIMITS, AND REQUIREMENTS FOR ALTERING COURSE

Figure 1-4 summarizes the restrictions, limits, and requirements for altering course by search turn, by turn-together, and by wheeling. This table should be read in conjunction with Chapter 6 (TURN) and Chapter 7 (CORPEN).



NOTE:

- (1) At night or in low visibility, formation turns in excess of 90° should normally be executed in two or more increments by the delayed executive method.
- (2) It is normally inadvisable to exceed 90° when ships with dissimilar turning characteristics are involved.
- (3) Spacing must be at least 1,000 yd when in line abreast and at least 1,500 yd when in loose line abreast.
- (4) Upon execution of the signal ordering the wheel, ships in:
 - 1. Column open order form a column.
- Loose line of column turn towards the Guide.In both situations, ships are to follow in the wake of the Guide.

Upon completion of the wheel:

- 1. Column open order automatically reforms.
- 2. Loose line of column does not automatically reform unless signaled.

Figure 1-4. Restrictions, Limits, and Requirements for Altering Course

135 MANEUVERING ORDERS AND INSTRUCTIONS

136 TYPES OF LINE FORMATIONS

- a. SINGLE LINE. Although a single line is normally considered to be only one unit, it can comprise two or more components, such as divisions or subdivisions. Single line formations, illustrated in Figures 1-5 and 1-6, are:
 - (1) Column.
 - (2) Loose line of column.
 - (3) Line abreast.
 - (4) Loose line abreast.
 - (5) Line of bearing.
 - (6) Loose line of bearing.
 - (7) Column open order.
 - (8) Diamond formation.
- b. MULTIPLE LINE. Each line of a multiple line formation is considered to be one unit. Multiple line formations, illustrated in Figures 1-7, 1-8, and 1-9, are:
 - (1) Divisions in column, division guides bearing abeam.
 - (2) Subdivisions in column, subdivision guides bearing abeam.
 - (3) Divisions in line abreast, division guides bearing astern.
 - (4) Subdivision in line abreast, subdivision guides bearing astern.
 - (5) Special line formations for destroyer type ships (Formations 21 to 24), or as previously designed and ordered by the OTC (Formations 25 to 29).
- c. VARIATIONS TO LINE FORMATIONS. Most formations listed in paragraphs A and B may be varied in accordance with paragraph 138c.

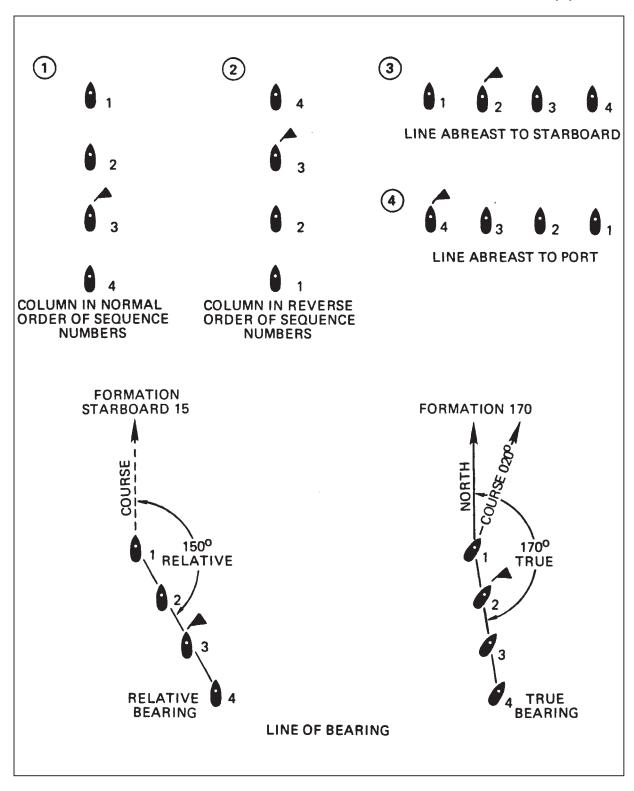


Figure 1-5. Single Line Formations 1, 2, 3, and 4

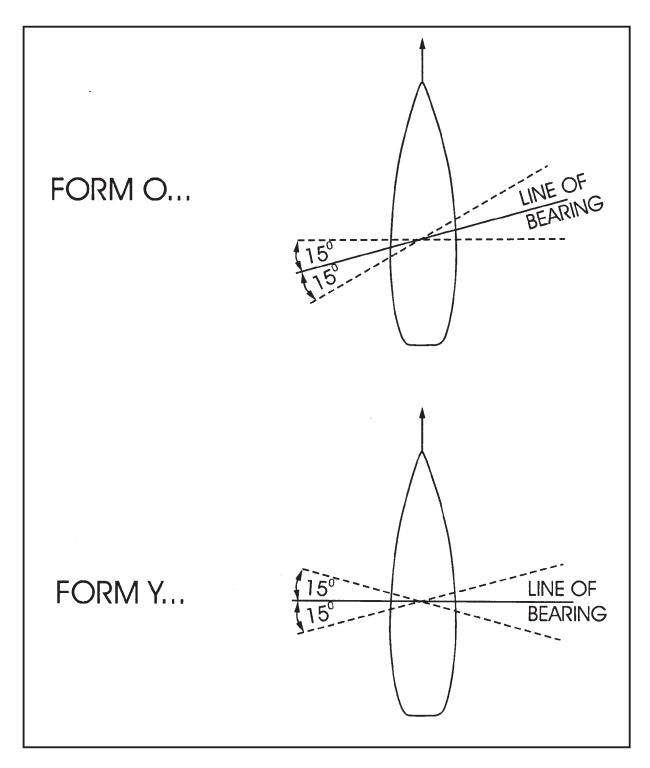


Figure 1-5A. Formations OSCAR and YANKEE

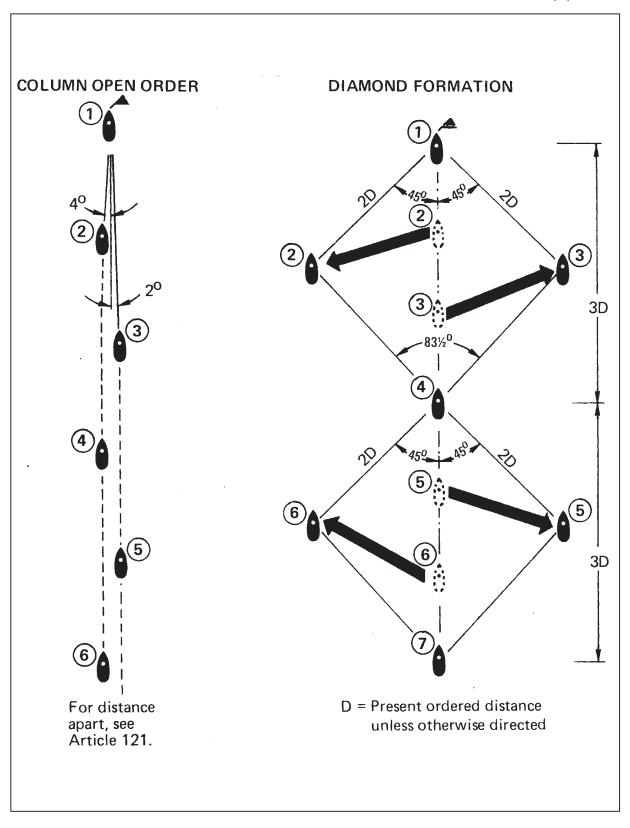


Figure 1-6. Column Open Order and Diamond Formation

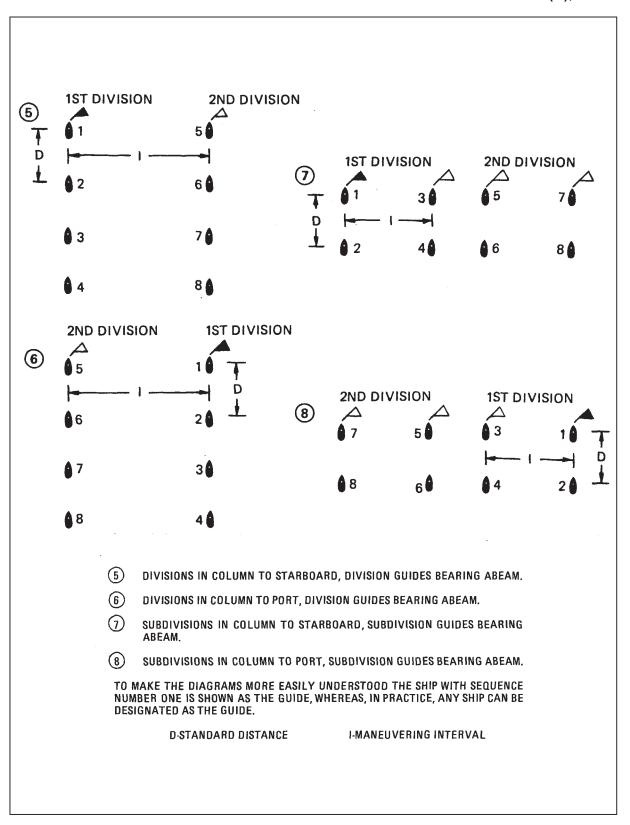


Figure 1-7. Multiple Line Formations 5, 6, 7, and 8

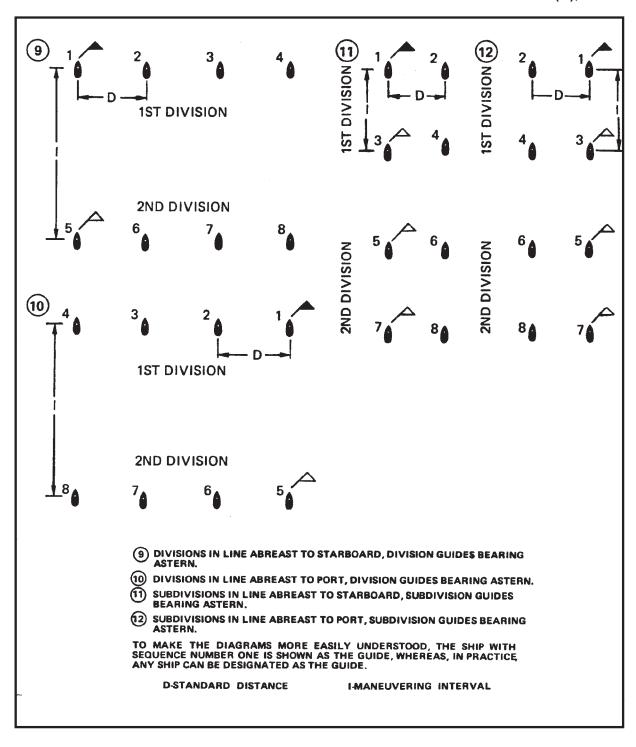


Figure 1-8. Multiple Line Formations 9, 10, 11, and 12

137 ASSUMING FORMATION

- a. FORMING OF SHIPS. When assuming a single or multiple line formation, or when required to alter the formation, ships may be formed as follows:
 - (1) In consecutive numerical order of sequence numbers.
 - (2) By variations in numerical order of sequence numbers.
 - (3) In order in which call signs are indicated.
 - (4) In quickest sequence, without regard to sequence numbers.
 - (5) By means of special instructions for loose line of column, loose line abreast, loose line of bearing, column open order, and diamond formation. (See Articles 136 and 141.)
- b. SHIP SEQUENCE NUMBERS. The OTC or an assigned subordinate may find it advantageous to assign each ship in his organization a number to facilitate close maneuvering. This number is known as the sequence number and indicates each ship's position in the line. The number assigned should consider such various factors as the relative seniority of commanding officers, differences in ships' characteristics, and other matters. The sequence number is not normally changed unless operational requirements make a change necessary.
- c. CHANGE IN SEQUENCE NUMBERS. When a ship joins and is assigned a sequence number already held by a ship present, the latter ship and all ships holding a higher sequence number are automatically to take the next higher number. For example, a ship joins and is assigned sequence number 3, a number already held by a ship present; the latter ship takes number 4 and all higher numbered ships take the next higher number. An order changing sequence numbers does not automatically direct any ship to move to her new station; an additional order to form in the new sequence or to proceed to the new station is required.

138 FORMING LINES IN CONSECUTIVE NUMERICAL ORDER OF SEQUENCE NUMBERS

- a. FORMATIONS. Formations which can be assumed in numerical order of sequence numbers, ships already in formation or not, are:
 - (1) Column.
 - (2) Line abreast.
 - (3) Line of bearing.
 - (4) Multiple line formations.
 - b. PROCEDURE.
 - (1) STATIONS. Each ship moves independently to the new station, unless ships are already formed and the new formation signal can be complied with by the movement of a line (or division or subdivision) as a whole; in which case, the line (or division or subdivision) commander maneuvers his unit by signal into the new station.
 - (2) FORMING.
 - (a) Standard line formations are listed in Article 401.
 - (b) Ships form on their respective line guides in the order of sequence numbers, at standard distance unless otherwise ordered. If the line has already been formed, ships remain at their present distance apart.
 - (c) Lines form in numerical sequence of divisions (subdivisions) from van to rear if formed astern, from port to starboard if formed to starboard, or from starboard to port if formed to port. Lines form at maneuvering interval unless otherwise ordered, on the line containing the Guide.
 - (3) FORMING ON THE GUIDE. Whether the Guide is the OTC's ship or an indicated ship, ships and lines invariably form on the Guide.
 - (4) FORMING ON A LINE OF BEARING. When forming on a line of bearing (true or relative) from an unformed state, if it is to be other than the quickest sequence, ships are to form in the order in which their call signs or sequence numbers are indicated from port to starboard. For forming in quickest sequence, see paragraphs 139d(3) and d(4).
- c. VARIATIONS TO SINGLE AND MULTIPLE LINE FORMATIONS. The formations listed in paragraph 138a can be varied by using the appropriate basic formation signal supplemented by signal(s) for the maneuvers listed below. When varying the formation, the instructions in paragraph 138b will apply, except when the supplementary signal specifically amends any portion of the instructions.
 - (1) Ships in line form in the sequence in which their call signs are made, or in the order in which their sequence numbers are indicated.
 - (2) Lines form in the sequence in which the call signs of divisions (subdivisions) are made.
 - (3) Ships in line form in reverse order of sequence numbers.
 - (4) Ships in line form on a specified true or relative line of bearing from their line guide.
 - (5) Line guides form on a specified true or relative line of bearing from the Guide.

139 FORMING LINES IN QUICKEST SEQUENCE

- a. FORMATIONS. Formations which can be assumed in quickest sequence without regard to the numerical order of sequence numbers are:
 - (1) Column.
 - (2) Line abreast.
 - (3) Loose line abreast.
 - (4) Line of bearing (true or relative).
 - (5) Loose line of bearing (true or relative).
- b. PROCEDURE. Each ship moves to her station independently and forms on the Guide (line guide for line of bearing) or ship indicated. If the line is already formed, ships are to remain at their present distance apart. If not formed up, ships are to form at standard distance unless otherwise ordered.
- c. HOW QUICKEST SEQUENCE IS DETERMINED. The quickest sequence depends on each ship's present position relative to the line guide or the ship indicated, and not on the numerical order of sequence numbers.
 - d. INSTRUCTIONS FOR FORMING IN QUICKEST SEQUENCE.
 - (1) FORMING COLUMN IN THE QUICKEST SEQUENCE ON THE MOST ADVANCED SHIP OR SHIP INDICATED. Unless a particular ship has been indicated, the ship to be formed on is the most advanced ship on the present course. The remaining ships are to form astern of her in the quickest sequence according to their positions relative to her. If the ship to be formed on has been indicated, ships are to form ahead or astern of her in the quickest sequence.
 - (2) FORMING SINGLE LINE ABREAST IN THE QUICKEST SEQUENCE ON THE GUIDE OR SHIP INDICATED. Ships are to form on the nearest beam of the Guide or ship indicated, relative to her course or to the course indicated. Ships are to form in the quickest sequence according to their positions relative to her.
 - (3) FORMING ON A TRUE LINE OF BEARING IN THE QUICKEST SEQUENCE ON THE LINE GUIDE OR SHIP INDICATED. Ships are to form on the line guide or ship indicated on the bearing indicated or its reciprocal, in one line and in the quickest sequence according to their positions relative to her.
 - (4) FORMING ON A RELATIVE LINE OF BEARING IN THE QUICKEST SEQUENCE ON THE LINE GUIDE OR SHIP INDICATED. Ships are to form on the line guide or ship indicated in the direction indicated or its reciprocal relative to her course, and in the quickest sequence according to their positions relative to her.

140 ALTERING LINE FORMATIONS

- a. REVERSING ORDER OF SHIPS IN COLUMN. In reversing order of ships in column in succession from the rear, the rear ship automatically becomes the Guide and increases speed to 1 knot less than stationing speed, passing the ships ahead of her on the side indicated. Other ships reduce speed to 7 knots or as indicated. At the appropriate time, each ship in succession from the rear is to increase speed and take station in the wake of the ship that was previously next astern to her. All ships will maintain speed after taking station in the new column until the OTC reduces speed by speed signal. If the maneuver is ordered when ships have no way on, the new Guide's speed will be signaled; each ship will subsequently get underway in succession from the rear in time to complete the maneuver.
- b. ALTERING A LINE OF BEARING. When ships are in a formed state, it may be necessary to alter the true or relative lines of bearing: (1) of ships from their line guide or ship indicated, and (2) of line guides from the Guide or ship indicated.
 - (1) OF SHIPS FROM LINE GUIDE.
 - (a) TRUE LINE OF BEARING. If altering the true line of bearing, ships are to move independently so as to form at their present distance apart, in their present sequence, and on the true bearing indicated from the line guide or ship indicated.
 - (b) RELATIVE LINE OF BEARING. If altering the relative line of bearing, ships are to move independently so as to form at their present distance apart, in their present sequence, and on the bearing indicated relative from the line guide or ship indicated.
 - (c) GUIDE NOT AT END OF LINE. If altering the line of bearing by either true or relative method, with the Guide not at the end of the line, ships are to form on the *true* or *relative* bearing indicated from the Guide or ship indicated, or its reciprocal, *whichever is nearer*. An alteration of the line of bearing of exactly 90° is to be carried out in two separate increments, except for the situations outlined in subparagraph (d) below.
 - (d) ALTERING FROM COLUMN TO LINE ABREAST OR VICE VERSA.
 - (i) COLUMN. If altering directly from column to line abreast, with the Guide not at an end of the line, ships *ahead* of the Guide form on the bearing indicated, the remainder on the reciprocal.
 - (ii) LINE ABREAST. If altering directly from line abreast to column with the Guide not an end ship, ships to *port* of the Guide form on the bearing indicated, the remainder on the reciprocal.
 - (2) OF LINE GUIDES FROM THE GUIDE.
 - (a) TRUE LINE OF BEARING. If altering the true line of bearing of line guides, line commanders are to move their lines by signal to take up their new stations. Lines are to form at their present interval apart, in their present sequence, and on the true line of bearing indicated from the Guide or ship indicated.

- (b) RELATIVE LINE OF BEARING. If altering the relative line of bearing of line guides, line commanders are to move their lines by signal to take up their new stations. Lines are to form at their present interval apart, in their present sequence, and on the relative bearing indicated from the Guide or ship indicated.
- (c) GUIDE NOT IN AN END LINE. If altering the line of bearing of line guides by either true or relative method, with the Guide not in an end line, line commanders are to move their lines by signal to take up their new stations. Lines are to form at their present interval apart, in their present sequence, and on the *true* or *relative* bearing indicated from the Guide or ship indicated, or its reciprocal, *whichever is the nearer*. An alteration of a line of bearing of exactly 90° is to be carried out in two separate increments, except for the situations outlined in subparagraph (d) below.
- (d) ALTERING FROM LINE GUIDES AHEAD AND ASTERN TO LINE GUIDES ABEAM AND VICE VERSA.
 - (i) LINE GUIDES AHEAD AND ASTERN. If altering directly from line guides ahead and astern to line guides abeam (Guide not in an end line), line commanders are to move their lines by signal. Lines are to form at their present interval apart, in their present sequence, on the Guide or ship indicated. Lines *ahead* of the Guide form on the *true* or *relative* bearing indicated, the remainder on the reciprocal.
 - (ii) LINE GUIDES ABEAM. If altering from line guides bearing abeam (Guide not in an end line) directly to line guides bearing ahead and astern, line commanders are to move their lines by signal. Lines are to form at their present interval apart, in their present sequence, on the Guide or ship indicated. Lines to *port* of the Guide form on the *true* or *relative* bearing indicated, the remainder on the reciprocal.

141 FORMATIONS DERIVED FROM LINE FORMATIONS

- a. LOOSE LINE OF COLUMN. This line formation is employed mainly when steaming at high speed while engaged with the enemy or in conducting a torpedo attack during daylight. This is an approximate line of bearing within 15° of column. Distance may be increased to reduce yawing.
 - (1) FORMING. A loose line of column can only be formed when ships are in column. The leading ship is automatically to become the Guide.
 - (a) WITHOUT SIGNAL. Loose line of column may be assumed without orders to reduce enfilade or yawing, to unmask gun batteries, to facilitate reading signals, to avoid smoke, or to reduce wake interference with sonar search.
 - (b) WITH SIGNAL. Ships are to take station on the indicated quarters of the Guide on an approximate line of bearing within 15° of column.
- b. LOOSE LINE ABREAST. This line formation is employed mainly by an SAU when engaged in ASW searching and a set pattern is not desired.
 - (1) FORMING. Ships are to form within 15° of the nearest beam of the Guide or ship indicated, relative to her course or the course indicated, in the quickest sequence according to their positions relative to her.
 - (2) DISTANCE. Ships are to form at present distance or as indicated.
- c. LOOSE LINE OF BEARING. This line formation can be assumed on the basis of either a true or relative line of bearing.
 - (1) FORMING. Ships are to form on the Guide or ship indicated within 15° of the bearing or its reciprocal, in the quickest sequence according to their positions relative to her.
 - (2) DISTANCE. Ships are to form at present distance or as indicated.
- d. COLUMN OPEN ORDER (see Figure 1-6). In forming column open order, ships are displaced on both sides of the course, even-numbered ships (counting from the leading ship) forming to port and odd-numbered ships to starboard.
 - (1) FORMING. The leading ship automatically becomes the Guide. The second ship forms 4° on the port quarter of the Guide and the third ship 2° on the starboard quarter of the Guide; remaining ships form alternately astern of the second or third ship on the appropriate side.
 - (2) DISTANCE. Ships are to form at the same distance from the Guide as if they were in column. If the column is already formed, ships are to remain at their present ordered distance unless otherwise directed.
- e. DIAMOND FORMATION (see Figure 1-6). This formation may be used when mutual AAW support and additional maneuvering space are required at short notice.
 - (1) FORMING. A diamond formation can only be formed when ships are in column. The leading ship automatically becomes the Guide. The second ship in the column is to form on the port quarter of the Guide, the third ship on the starboard quarter, and the fourth ship in the wake. If there are more than four ships, additional ships are to form a second diamond on the fourth ship, odd numbers (counting from the leading ship) forming to starboard, even numbers forming to port.

- (2) DISTANCE. Unless otherwise ordered:
 - (a) Ships are to use their present ordered distance as D in Figure 1-6.
- (b) When the column is formed of large and small ships, ships use the distance of the largest ship as D throughout the formation.
- (c) When the formation is terminated, ships use this D distance as their present ordered distance when proceeding to new stations.

142 ALTERING COURSE BY WHEELING

- a. ORDERING.
- (1) DIRECTION. The direction of the wheel must always be indicated. The side to which the wheel is to be made is indicated with the use of the PORT flag or STBD pennant immediately after the CORPEN pennant.
 - (2) AMOUNT. The amount of the wheel is indicated in one of two ways.
 - (a) By three numerals, giving the true course to which the wheel is to be made.
 - (b) By one or two numerals, giving the number of tens of degrees ships are to wheel relative to the present course. The ANSWER pennant can be used to indicate a wheel to within 5°.

143 WHEELING IN SINGLE COLUMN

- a. EXECUTION. The leading ship is to alter course and become the Guide. Remaining ships are to follow round in her wake. See Figure 1-10.
- b. LEADING SHIP OF A SINGLE COLUMN ALTERS COURSE WITHOUT SIGNAL. When the leading ship of a column is the Guide and alters course without signaling the alteration to her column, the remaining ships of the column are to follow in the wake of the leading ship, unless the leading ship has signaled breakdown, man overboard, or to disregard her movements. When the leading ship is not the Guide and alters course without signaling, all other ships in formation should disregard this movement and remain in formation. In such cases, caution should always be exercised as prescribed by Rule 2b of the International Regulations for Preventing Collisions at Sea.

144 WHEELING IN COLUMN OPEN ORDER

Upon execution of the signal ordering the wheel, ships are first to form column at once, without further signal, then carry out the wheel in accordance with Article 143. They are automatically to resume column open order after all ships have completed the wheel.

145 WHEELING IN LOOSE LINE OF COLUMN

Upon execution of the signal ordering the wheel, ships in the line are to turn toward the leading ship of the line and follow in her wake to complete the maneuver. On completion, a loose line of column does not reform automatically unless circumstances make it necessary. (See paragraph 141a.)

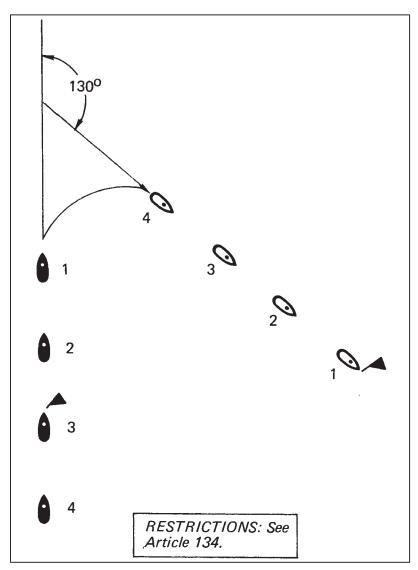


Figure 1-10. Wheeling in Single Column

146 WHEELING IN SINGLE LINE ABREAST

The pivot ship is to alter to the new course and become the Guide. See Figure 1-11. Remaining ships are to:

- (1) Increase speed as necessary up to stationing speed to complete the maneuver expeditiously.
- (2) Alter course independently to regain by the most direct route their previous relative bearings and distances from the pivot ship.
 - (3) Adjust their course and speed to that of the pivot ship.

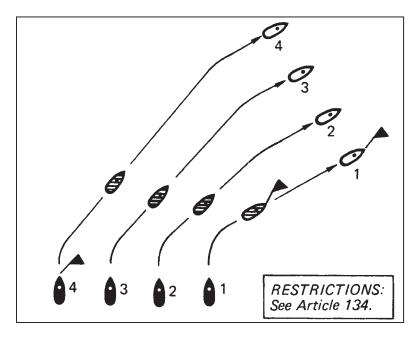


Figure 1-11. Wheeling in Single Line Abreast

147 WHEELING IN DIAMOND FORMATION

If a wheel is executed when in diamond formation, the leading ship is to turn to the new course and become the Guide. Remaining ships are to adjust course and speed to regain previous relative bearings from the "Guide" expeditiously.

148 WHEELING IN MULTIPLE LINE FORMATION

- a. SHIPS IN COLUMN WITH LINE GUIDES BEARING ABEAM. See Figure 1-12. This maneuver is accomplished as follows:
 - (1) Leading ship of the pivot column is to turn to the new course and become the Guide.
 - (2) Leading ships of the remaining columns are to alter course independently to resume their previous relative bearings and distances from the Guide by the most direct route. The speed of the remaining columns is to be increased by signal from each column commander to one knot less than stationing speed.
 - (3) Remaining ships are to follow the leading ship of their column. The subsequent reduction of speed of each column to that of the pivot column is to be ordered by signal by each column commander.

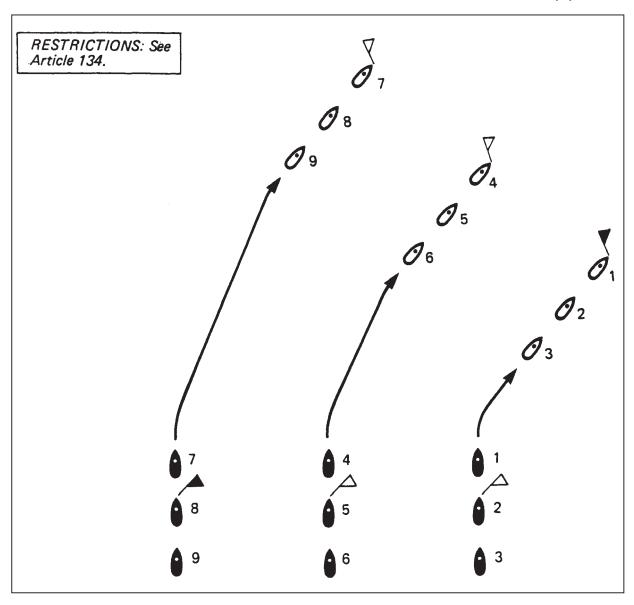


Figure 1-12. Wheeling in Multiple Line Formations

- b. SHIPS IN LINE ABREAST WITH LINE GUIDES BEARING ASTERN. See Figure 1-13. This maneuver is accomplished as follows:
 - (1) Leading line is to alter course as described in Article 146.
 - (2) Each succeeding line is to alter course in a similar manner, in the same water as that in which the leading line wheeled. At the appropriate moment, each line commander will order his line to wheel.
 - c. ADJUSTING SPEED OF PIVOT.
 - (1) ORDERING. At the same time that the OTC orders the wheel, he may reduce the speed of the pivot ship or pivot column, to expedite the completion of the maneuver. This reduction is effected by ordering a new signaled speed, which remains in force until otherwise ordered.

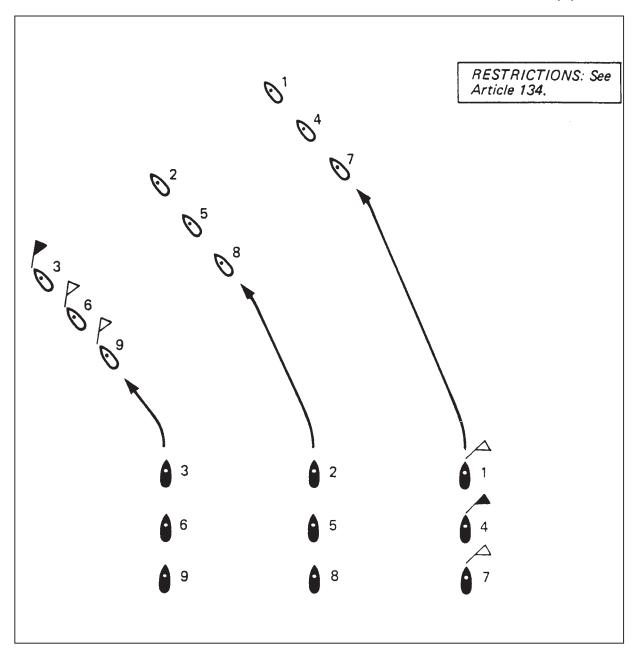


Figure 1-13. Wheeling With Line Guides Bearing Astern

- (2) IN COLUMN WITH LINE GUIDES BEARING ABEAM. If the speed is reduced when in column with line guides bearing abeam, all ships of the pivot column are to proceed at the new signaled speed at the same time as the Guide.
- (3) IN LINE ABREAST WITH LINE GUIDES BEARING ASTERN. In this situation, all lines except the leading line are to proceed at the new signaled speed at the same time as the Guide.

149 SPECIAL METHODS FOR ALTERING COURSE

For occasions when a simple turn-together (Chapter 6) or wheel (Chapter 7) does not meet the requirements of the OTC, various special methods for altering course are available. A special method is signaled by the CORPEN pennant followed by an alphabetical flag and three numerals (see Chapter 7). When carrying out the meaning of these signals, course is to be altered the shortest way. If it is necessary to specify the direction of the alteration, the STBD pennant or PORT flag is to follow the three numerals.

- a. LINES OR UNITS WHEELING SIMULTANEOUSLY. See Figures 1-14 and 1-15.
- (1) RESTRICTIONS. If line guides are at less than maneuvering interval apart, wheels in this manner are to be limited so that lines do not become unduly close during the maneuver. The restrictions on wheeling (Article 134) apply to each line separately.
- (2) EXECUTION. Each line or unit designated is to wheel simultaneously to the new course. On completion of the maneuver, ships in each line will be in their former relative positions, and line guides will have maintained their true bearings and intervals from the Guide.
 - b. EACH UNIT MAINTAINING TRUE BEARING FROM THE GUIDE.
- (1) USE. This method is for use if the OTC does not wish to use a general turn-together when any unit consisting of more than one ship is present. If only single-ship units are present, a general turn-together should be ordered instead.
- (2) EXECUTION. At the time ordered, single-ship units are to turn individually to the new course. Remaining units are to turn to the new course as directed by their unit commanders, who have discretion as to the method of altering the course of their units and their resulting formation.

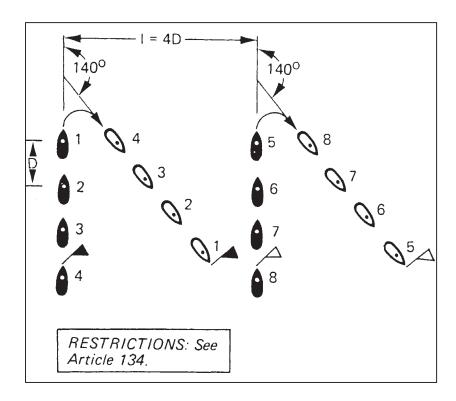


Figure 1-14. Wheeling Lines Simultaneously

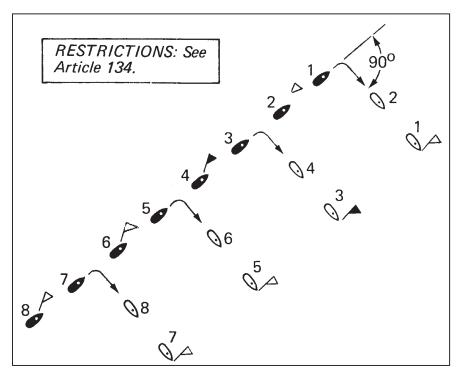


Figure 1-15. Wheeling Units Simultaneously

c. EACH UNIT MAINTAINING RELATIVE BEARING.

- (1) Execution When in a Circular Formation. When ships in a circular formation are to alter course with units maintaining relative bearings, the course is altered to the new course and the formation axis rotated (see Chapter 7) the same number of degrees in the same direction. Altering course and rotating the axis may be done successively or simultaneously. If done successively, course may be altered by a turn-together or by the method described in paragraph b above; the axis should then be rotated to conform with the maximum of 60° in one step. If done simultaneously, the method described in paragraph d below should be used.
- (2) Execution When Not in a Circular Formation. At the time ordered, the Guide is to turn to the new course; remaining units are to regain their relative bearings and distances from the Guide. Single-ship units are to proceed independently, remaining units by order of their unit commanders.
- d. ALTERING COURSE AND ROTATING FORMATION AXIS SIMULTANEOUSLY WHEN IN A CIRCULAR FORMATION. In good visibility, the course may be altered simultaneously with the rotation of the formation axis (see Chapter 7) the same number of degrees in the same direction or to the same true direction.

- (1) RESTRICTION. Alteration of course and axis simultaneously is not to exceed 60° in one step.
- (2) CAUTION. Simultaneous alteration of course and formation axis should not be carried out at night or in low visibility.
- (3) EXECUTION. The Guide is to turn to the new course. Single-ship units are to alter course and speed individually; remaining units are to proceed by order of their unit commanders. All units regain:
 - (a) Their stations relative to the new formation axis on the new course, if the axis is rotated to the same true direction.
 - (b) Their previous relative bearings and distances from the Guide on the new course, if the axis is rotated the same number of degrees in the same direction.
- e. ALTERING COURSE BY THE CONFORMING METHOD. When it is desired that the unit containing the Guide should pass through waters already traversed by advanced units and when the OTC can forecast the time at which he intends to alter course, the conforming method is available.
 - (1) RESTRICTION. This method is not to be used when in a circular formation.
 - (2) CAUTION. If evasive steering is being carried out, the OTC should order the formation to stop evasive steering and resume the base course before the most advanced unit is due to alter course.
 - (3) EXECUTION. Units with stations on the Guide's line of advance, either ahead or astern, are to alter course on passing through the position where the Guide alters course. Units not on the Guide's line of advance, on arrival abeam of the point where the Guide alters course, are to proceed to their stations relative to the new course. Single-ship units are to proceed independently, remaining units by order of their unit commanders.
- f. ALTERING COURSE BY SEARCH TURN. The search turn (see Figure 1-16) is for use when altering course while searching an area with ships in line abreast or loose line abreast.
 - (1) RESTRICTION. Ships in line abreast must be at least 1,000 yards apart; those in loose line abreast must be at least 1,500 yards apart. Ships of ocean minesweeper size and smaller may conduct search turns when the distance between ships is 500 yards. The alteration must not be less than 45° or more than 135°.
 - (2) EXECUTION. The wing ship on the side away from the direction of the new course is to turn to the course indicated and become the Guide. The remaining ships are to continue their course, each one turning in sequence, so that on completion of her turn she will be on the beam of the Guide on the new course. For large alterations when in loose line abreast, the OTC should consider ordering ships to reform in line abreast before executing the search turn.

150 NOT RELEASABLE

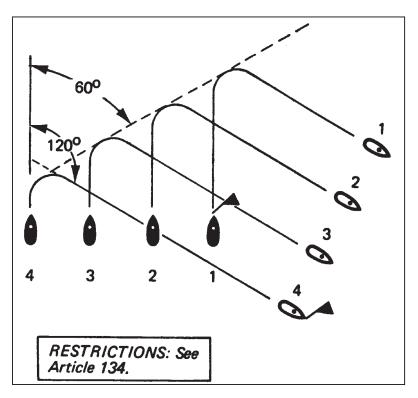


Figure 1-16. Search Turn

160 MISCELLANEOUS INSTRUCTIONS

The instructions in this section cover:

- (1) Substitutes.
- (2) Units of reference.
- (3) Fractions.
- (4) Times and dates.
- (5) Position.
- (6) Bearing, direction, and distance.
- (7) Courses and speeds.
- (8) Standard sector system.

161 SUBSTITUTES

- a. USE. Substitutes are used only when signaling by flags, except as noted in paragraph 119c. They are written as 1st, 2nd, 3rd, and 4th.
 - b. PURPOSE. Substitutes are used to repeat a flag or pennant in the same hoist only.
 - c. APPLICATION. Substitutes are used in the following manner:
 - (1) FIRST substitute repeats the first flag or pennant in a hoist.
 - (2) SECOND substitute repeats the second flag or pennant in a hoist.
 - (3) THIRD substitute repeats the third flag or pennant in a hoist.
 - (4) FOURTH substitute repeats the fourth flag or pennant in a hoist.

When two or more halyards are used to hoist a signal, each hoist is to be considered separately as regards substitutes. When a tackline is used to separate the components of a hoist, it is disregarded in the substitute count. Once a substitute has been used, it is no longer to be thought of as a substitute, but as the flag or pennant for which it has been substituted.

Examples: T1410 may be hoisted as T 1 4 2nd 0
161416 may be hoisted as 1 6 1st 4 3rd 2nd

162 UNITS OF REFERENCE

When a signal makes reference to numbers, distances, ranges, heights, depths, speeds, or weights, the unit of reference is as indicated below, unless otherwise stated in the meaning of the signal. However, for clarity, the units of reference are stated against some groups using the standard units which otherwise would not need such a statement. For international use, the units of measurement of the nation concerned may be used.

Altitude	. hundreds of feet
Distance	. nautical miles (2,000 yards)
Range	. hundreds of yards
Height	. feet
Depth	. feet
Speed	. knots
Weight	. tons (2,000 pounds)
Sector boundaries	. tens of degrees
Sector limits	. thousands of yards

163 FRACTIONS

ANSWER is used in the text of signals to indicate the decimal point or one-half.

```
Examples: SPEED H 12 ANS . . . Proceed at 12-1/2 knots.

SPEED H 12 ANS 8 . . . Proceed at 12.8 knots.

TURN STBD 4 ANS . . . Turn together 45° to starboard.

SCREEN Q3-B3 ANS . . . Change inner and outer limits of sector assigned towards screen center 3,500 yards.
```

164 TIMES AND DATES

- a. TIMES. In the text of signals, times are expressed as four numerals, the first two numerals denote the hours from 00 through 23 and the last two numerals denote the minutes.
 - (1) USE OF ANSWER. ANSWER may be used in place of the last two numerals to indicate 30 minutes.
 - (2) OMISSION OF MINUTES. When it is desired to signal an exact hour, the minutes may be omitted, but the hours must always be expressed in two figures.

b. DATES. Date-time groups in the text of signals are expressed as six numerals plus the zone indicator: the first pair of numerals denotes the date, the second pair the hours, and the third pair the minutes. When unable to make this display in one hoist, it may be broken between the date and the time group.

Example: CO4—20 . . . first hoist

1000Z... second hoist... Comply with my message 201000Z.

- c. FLAG TAS INDICATOR. When desiring to signal a time in conjunction with a signal group, the time indicator, Flag T, will be used as follows:
 - (1) T PRECEDING NUMERALS. The time indicator T preceding numerals signifies that action is to (or will) commence at that time.
 - (2) T FOLLOWING NUMERALS. The time indicator T following numerals signifies that action is to (or will) be completed by that time.
 - (3) NUMERALS PRECEDING AND FOLLOWING T. Numeral groups preceding and following the time indicator T indicate time by which action is to be completed and time at which action is to commence, respectively.
 - (4) T PRECEDING NUMERALS ALONE. If the signal consists only of T plus two or four numerals, it signifies a time check. The time of execution is the time indicated.

Examples: TA36... Show no light.

TA36—T1845 . . . Show no light. Action is to commence at 1845.

TA36—18 ANS T... Show no light. Action is to be completed by 1830.

TA36—19T1845... Show no light. Action is to commence at 1845 and is to be completed by 1900.

d. OMISSION OF FLAG T. When time is referred to in the meaning of a signal group, the time indicator Flag T may be omitted if the omission cannot cause any ambiguity.

```
Examples: ED14 . . . Unmoor (at _____).

ED14—1745 . . . Unmoor at 1745.

ED14—18 . . . Unmoor at 1800.
```

e. SIGNALS GOVERNED BY THE SAME TIME SIGNAL. A time signal applies only to the group immediately preceding it. When it is required to apply to two or more groups preceding it, "BT" is inserted before the first of the groups to which the time signal is to apply.

Examples: FORM 3—CORPEN STBD 275—SPEED 15—T13...FORM 3 and CORPEN STBD 275 are to be executed when hauled down. SPEED 15 will be carried out at 1300 GMT.

BT—FORM 3—CORPEN STBD 275—SPEED 15—T13 . . . In this case, all signals between BT and T13 will be carried out at 1300 GMT.

- f. CANCELING A SIGNAL. NEGAT over a time signal cancels all signals governed by that time signal.
- g. BT HOISTED SEPARATELY. If BT is hoisted separately as the first hoist and left flying during several successive hoists, all hoists made in this period will be executed when BT is hauled down. No time signal is needed with this method of execution.

h. TIME ZONE INDICATORS. All times signaled throughout this book refer to GMT (ZONE 0 (Z)), unless otherwise indicated; suffixes, therefore, are not required except to indicate the exception, as below:

Example: TA36—T18R... Show no light. Action is to commence at 1800R.

EAST LONGITUDES		WEST LONGITUDES			
Zone	Number	Letter	Zone	Number	Letter
7½ W to 7½ E	0	Z	7½ W to 22½ W	+1	N
7½ E to 22½ E	-1	Α	22½ W to 37½ W	+2	0
22½ E to 37½ E	-2	В	37½ W to 52½ W	+3	Р
37½ E to 52½ E	-3	С	52½ W to 67½ W	+4	Q
52½ E to 67½ E	-4	D	67½ W to 82½ W	+5	R
67½ E to 82½ E	-5	E	82½ W to 97½ W	+6	s
82½ E to 97½ E	-6	F	97½ W to 112½ W	+7	T
97½ E to 112½ E	-7	G	112½ W to 127½ W	+8	U
112½ E to 127½ E	-8	Н	127½ W to 142½ W	+9	V
127½ E to 142½ E	-9	I	142½ W to 157½ W	+10	W
142½ E to 157½ E	-10	K	157½ W to 172½ W	+11	x
157½ E to 172½ E	-11	L	172½ W to 180	+12	Y
172½ E to 180	-12	М			

- (1) Letter N is also used to designate -13; this is to provide for a ship in zone -12 keeping Daylight Saving Time.
- (2) Reference should be made to a Time Zone Chart in order to learn the exact zone boundaries, since they sometimes deviate slightly to accommodate national boundaries, and so forth. For time midway between zones, the zone to be utilized will be designated by the OTC.

165 POSITION

- a. LATITUDE AND LONGITUDE. Position in latitude and longitude will be signaled by two four-numeral groups, each group preceded by the letter P. The first group will denote degrees and minutes of the latitude, the second group will denote degrees and minutes of the longitude.
 - (1) ADDITION OF LETTERS. When confusion may arise, the letters N, S, E, or W may be added to denote North, South, East, or West.
 - (2) ADDITIONAL NUMERALS. When signaling longitudes over 100, five numerals may be used if necessary to avoid ambiguity.
- b. OMISSION OF FLAG P. When position is referred to in the meaning of a signal group, the position indicator P may be omitted if the omission cannot cause ambiguity.

Examples: NA22 . . . My position (or _____) is as indicated by accompanying position signal. Time may be indicated by time signal.

NA22—3215—7023—T16 . . . My position is latitude 32°15' longitude 70°23' at 1600.

- c. STANDARD POSITION INDICATORS. Standard positions in the force are:
 - (1) QQ—The center of the front of the main body or convoy when not in a circular formation.
 - (2) TT Originator's present position.
- (3) XX The standard position established by the OTC on which a search, enemy reporting, and so forth, is to be based.
 - (4) YY Addressee's present position.
- (5) ZZ The center of the force. This standard position should not be used in convoy signaling, standard position QQ being used instead.

166 BEARING, DIRECTION, AND DISTANCE

- a. REFERENCE POINTS. Bearings and distances may be signaled from:
- (1) A point on the earth's surface specially designated by double letters or code names; e.g., 125MM45.
 - (2) A point of land or navigational mark; e.g., 112 HATTERAS 12.
 - (3) A standard position in the force; e.g., 310ZZ7.
 - (4) A ship or unit; e.g., 273—Dp4p1—12 (visual); 273 CALL SIGN HOTSHOT 12 (voice).
 - b. BEARINGS AND DIRECTIONS.
- (1) TRUE BEARING. True bearing is signaled by three numerals. Such a signal may be used in conjunction with any signal group to indicate the bearing of the subject of that group, provided another meaning for three numerals following is not given in the meaning or instructions for that group.
- (2) RELATIVE DIRECTION. Relative direction may be signaled by the PORT Flag or STAR-BOARD Pennant. One or two numerals may be used to indicate the number of tens of degrees from right-ahead (dead ahead) following the PORT Flag or STARBOARD Pennant.

Examples: $PORT 5 \dots 50^{\circ}$ on the port bow.

STBD 0 . . . Right-ahead.

c. BEARING AND DISTANCE. Unless otherwise stated in the meaning of a signal, bearing and distance from a position or unit are indicated by the numeral group for bearing, followed by the position or unit indicated (if required), and then the numeral group for distance in miles.

Examples: STATION X 5 . . . Take station as communication linking ship.

STATION X 5—045—Dp8p4—15—18 ANS T... Destroyer 3: prepare to take station as communication linking ship on bearing 045° true from ship D84, distance 15 miles, to be in station by 1830.

167 COURSES AND SPEEDS

a. COURSES. Courses are signaled by using the appropriate Corpen signal from Chapter 7. When the course is referred to in the meaning of a signal, the special pennant Corpen may be omitted provided there can be no ambiguity. Corpen signals may be used in conjunction with any signal group to indicate the course of the subject of the group.

Examples: CORPEN U 135 . . . Maintain course 135°.

TA97—1—180 . . . Disengage ahead on course 180°.

G FORM 3 Dp2p7—G CORPEN 270 . . . Guide of this unit is Destroyer 27. Guide's course is 270°.

b. SPEEDS. Unless otherwise stated in the meaning of the signal, a numeral group immediately following an informative course signal indicates speed in knots.

Example: K CORPEN 045—20... Course is 045°, speed 20 knots.

168 STANDARD SECTOR SYSTEM

The standard sector system may be used for ordering sector screens and in all other cases in which sectors may be ordered. The sector method is illustrated in Figure 1-17.

- a. SECTOR ALLOCATION. Sectors are allocated by indicating sector boundaries and, if necessary, sector depth, separated by TACK, followed by the call sign of the unit assigned to that sector.
- b. SECTOR BOUNDARIES. Sector boundaries are ordered by a group of four numerals. First two numerals indicate the true bearing of the left boundary in tens of degrees, second two numerals indicate the true bearing of the right boundary in tens of degrees. Use ANSWER to order an increment of 5°.
- c. SECTOR DEPTH. Sector depth is ordered by a group of four numerals. First two numerals indicate inner and second two numerals indicate outer limit of sector in thousands of yards from the unit, reference point, or standard position indicated. Use ANSWER to order an increment of 500 yards.
- d. HELICOPTERS NOT SPECIFIED. Sectors assigned to unspecified helicopters must be indicated by adding DESIG H after the sector assigned and in place of the call sign.

Examples: SCREEN K—ZZ—0307—0510 Dp1p6... Form sector screen. Screen center is the center of the force. Destroyer 16 take sector between 030° and 070° true and between 5,000 and 10,000 yards from screen center.

SCREEN K—QQ—20 ANS 33 ANS—02 ANS 07 DESIG H... Form sector screen. Screen center is the front of the main body. Helicopter take sector between 205° and 335° true and between 2,500 and 7,000 yards from screen center.

AA6-2529... Threat is from sector between 250° and 290° true.

Examples:

SECTOR	DESIGNATOR AS	SECTOR	SECTOR LIMITS
	SIGNALED	BOUNDARIES	FROM ZZ
1 2 3 4	0307-0510 0810-0811 11 ANS 15 ANS-0510 20 ANS 33 ANS- 02 ANS 07	030° - 070° 080° - 100° 115° - 155° 205° - 335°	5,000 - 10,000 yd 8,000 - 11,000 yd 5,000 - 10,000 yd 2,500 - 7,000 yd

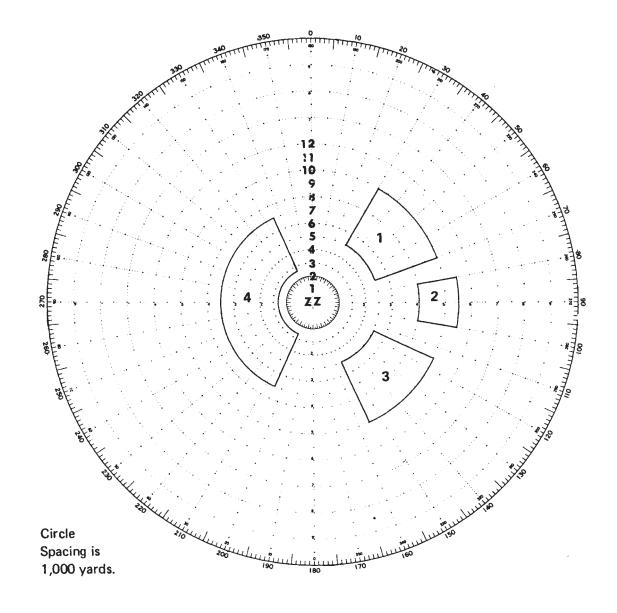


Figure 1-17. Sector Method

SINGLE FLAG/ PENNANT

CHAPTER 2

SINGLE FLAGS AND PENNANTS

- 200 Instructions
- 201 Single Alphabetical Flag Table
- 202 Single Numerical Flag Table
- 203 Single Special Flag/Pennant Table
- 204 Absentee Indicator Table (In Port)

200 INSTRUCTIONS

Single flag and pennant signals not marked REPEATED BY ADDRESSEES or ANSWERED BY ADDRESSEES are flown for information and are not to be answered or repeated. Such signals need not be preceded by SECOND SUBSTITUTE. If no ambiguity will result, two or more single flag or pennant signals, separated by TACK, may be displayed simultaneously from the same point of hoist. Similarly, appropriate single flag and pennant signals may be used in conjunction with other signal groups. Single flag and pennant signals contained in this chapter are never preceded by EMERGENCY, because different meanings are assigned to single flags or pennants that are preceded by EMERGENCY. See Chapter 3 concerning the use of EMERGENCY.

201 SINGLE ALPHABETICAL FLAG TABLE

FLAG	INDICATION	NORMALLY DISPLAYED	MEANING
A	DIVERS OR FRIENDLY EXPLOSIVE ORDNANCE DISPOSAL PERSONNEL DOWN	Where best seen.	WHILE FLYING: Divers or friendly explosive ordnance disposal personnel down. A numeral group following will indicate the radius in hundreds of yards inside which personnel are operating. No other MCM operations are to take place within this area and all other vessels are to remain clear.

FLAG	INDICATION	NORMALLY DISPLAYED	MEANING
В	WEAPON PRACTICES (Use largest availableflag)	BY FIRING SHIP: Where best seen or on appropriate side.	AT DIP: On the range or between phases. CLOSE UP: Firing has commenced. HAULED DOWN: Firing completed.
	<i>37</i>	BY TARGET SHIP: Where best seen.	CLOSE UP: Target ready: range is clear. HAULED DOWN: Firing completed or range is foul.
	FUELING OR TRANSFERRING EXPLOSIVES OR INFLAMMABLE MATERIAL	BY DELIVERING SHIP: Where best seen.	AT DIP: Have temporarily stopped supplying. CLOSE UP: Fuel, explosives, or inflammable materials are being transferred. HAULED DOWN: Delivery is completed.
		BY RECEIVING SHIP: Where best seen.	AT DIP: Have temporarily stopped receiving. CLOSE UP: Fuel, explosives, or inflammable materials are being transferred. HAULED DOWN: Delivery is completed.
	TRANSPORTING EXPLOSIVES, FUEL, OR INFLAMMABLE MATERIAL	BY BOATS: In bow or where best seen.	WHILE FLYING: I am transporting explosives, fuel, or inflammable material.
С	AFFIRMATIVE	Where best seen.	a. In reply to a signal: YES or PERMISSION GRANTED.
			 b. Preceding 4 or 6 numerals: With reference to message indicated, YES or PERMIS- SION GRANTED.
			c. C TACK – – – (signal): YES or PERMIS- SION GRANTED to carry out the meaning of the signal.
D	DEGAUSSING	BY RANGE HUT: At signal yard.	WHILE FLYING: Range is in operation.
		BY SHIP UNDERWAY: At yardarm.	WHILE FLYING: I am making degaussing runs.
E	NO RF DANGER	Where best seen.	Rotating antenna without radiating RF energy.

FLAG	INDICATION	NORMALLY DISPLAYED	MEANING
F	FLIGHT OPERATIONS (Flag hoist only)	Where best seen.	AT DIP: I am ready to operate fixed-wing aircraft when wind conditions are suitable. DIPPED after being close up: My flight operations have been delayed temporarily (about 10 minutes). CLOSE UP: I am operating fixed-wing aircraft. HAULED DOWN: I have completed operating fixed-wing aircraft. NOTE: When operating both fixed-wing aircraft and helicopters concurrently, Flag H need not be used.
G	GUIDE FLAG (See Article 2604 for optical guidance).	Where best seen.	 a. WHILE FLYING: This ship is GUIDE. b. G TACK Call Sign: Ship indicated is to be Guide (REPEATED BY ADDRESSEES). c. Call sign G TACK Call Sign: Guide of unit addressed is to be ship indicated (REPEATED BY ADDRESSEES).
Н	HELICOPTER OPERATIONS (For helicopter transfer/vertical replenishment signals, see Article 3102.)	Where best seen.	AT DIP: I am ready to operate helicopters when wind conditions are suitable. DIPPED after being close up: My helicopter operations have been delayed temporarily (about 10 minutes). CLOSE UP: I am operating helicopters. HAULED DOWN: I have completed operating helicopters. See NOTE under Flag F.
I	GOING ALONG- SIDE (in port or at anchor)	BY RECEIVING SHIP: At yardarm on side rigged.	AT DIP: I am preparing to receive you alongside. CLOSE UP: I am ready to receive you alongside. HAULED DOWN: First line is secured.
		BY SHIP GOING ALONGSIDE: At yardarm on side rigged.	AT DIP: I am preparing to come alongside you. CLOSE UP: I am ready to come alongside you. HAULED DOWN: First line is secured.

FLAG	INDICATION	NORMALLY DISPLAYED	MEANING
J	SEMAPHORE MESSAGE	Where best seen. ANSWERED BY ADDRESSEES	CLOSE UP: I have a semaphore message to transmit. a. J DESIG indicates priority message. b. J. DESIG ——— (Z or O) indicates appropriate other precedence. HAULED DOWN: Transmission completed.
K	PERSONNEL WORKING ALOFT AND/OR OVER THE SIDE	Where best seen.	WHILE FLYING: Personnel are working aloft and/or over the side.
L	RADHAZ/HERO WARNING	Where best seen.	WHILE FLYING: Do not approach within yards of this unit or unit indicated without obtaining positive clearance to do so. 1. 200 2. 500 3. 3,000
M	MEDICAL DUTY SHIP	Where best seen (not underway).	WHILE FLYING: I have medical and dental guard duty. M1 I have medical guard duty. M2 I have dental guard duty.
	MOVEMENTS	Where best seen (underway).	WHILE FLYING: Disregard my movements.
N	YOUR MOVE- MENTS NOT UNDERSTOOD	Where best seen. REPEATED BY ADDRESSEES.	Your movements are not understood.
	VISUAL WATCH	Where best seen (not underway).	Ship not keeping visual watch.
0	MAN OVER- BOARD	Where best seen.	WHILE FLYING: Man overboard.
Р	GENERAL RECALL	Where best seen (in port).	WHILE FLYING: All personnel belonging to this ship return to ship immediately.
	POSITION INDICATOR	Where best seen.	See Article 165.

R

FLAG	INDICATION	NORMALLY DISPLAYED	MEANING	
Q	BOAT RECALL	Where best seen.	WHILE FLYING: All boats belonging to this ship or boat(s) addressed return to this ship immediately. For use in submarine exercises, see Article 1306b.	
R	REPLENISHING OR TRANSFER- RING ABEAM METHOD (See Article 3103 for use at night.)	BY UNDERWAY REPLENISHMENT GUIDE: On side rigged.	AT DIP: I am steady on course and speed and am preparing to receive you on side on which this flag is hoisted. CLOSE UP: I am ready for your approach. HAULED DOWN: When messenger is in hand.	
		BY APPROACH SHIP: On side rigged.	AT DIP: I am ready to come alongside. CLOSE UP: I am commencing approach. HAULED DOWN: When messenger is in hand.	
	FUELING BY ASTERN METHOD (See Article 3103 for use at night.)	BY UNDERWAY REPLENISHMENT GUIDE: On side hose is being streamed.	AT DIP: I am steady on course and speed and am preparing to stream hose on this quarter. CLOSE UP: I am ready for your approach. HAULED DOWN: Hose is on deck of receiving ship.	
		BY APPROACH SHIP: On side hose is being received.	AT DIP: I am ready to close and take hose. CLOSE UP: I am commencing approach. HAULED DOWN: Hose grappled and in hand on deck.	
	READY DUTY SHIP	Where best seen.	WHILE FLYING: I am ready duty ship.	
	MCM OPERATIONS	Where best seen	See ATP 24.	
S	DRILL SIGNAL	Where best seen.	WHILE FLYING: Signal flying is for flaghoist drill only.	
Т	TIME INDICATOR		See Article 164c.	

FLAG	INDICATION	NORMALLY DISPLAYED	MEANING
U	ANCHORING	On appropriate side or where best seen.	AT DIP: Anchor let go. PORT or STBD may be used to indicate anchor.
			CLOSE UP: Chain cable veered to required length.
	MOORING		AT DIP: Anchor let go. PORT or STBD may be used to indicate side. CLOSE UP: Chain cable middled.
			HAULED DOWN: Chain cable secured.
	WEIGHING		AT DIP: I am heaving in. When unmooring. PORT or STBD may be used to indicate side. CLOSE UP: Anchor aweigh. HAULED DOWN: I am ready to proceed.
V	STREAMING/ RECOVERING TOWED ACOUSTIC DEVICES NOT INCLUDING MINESWEEPING EQUIPMENT	Where best seen.	CLOSE UP: Streaming/recovering. HAULED DOWN: Streamed/recovered.
W	INFORMATION ADDRESSEE	At yardarm.	Information addressees follow: (See ACP 130 series).
X	EXERCISE	At fore yardarm. REPEATED BY ADDRESSEES	Evolution or exercise completed.
		Where best seen. REPEATED BY ADDRESSEES	X TACK – – – (signal): Carry out for exercise the meaning of the signal following.
		At yardarm.	X TACK (signal inferior to second substitute): I am carrying out for exercise the meaning of the signal following.
Y	ACKNOWLEDGE	At yardarm. REPEATED BY ADDRESSEES	(signal) TACK Y: A separate acknowledgment required. Y TACK (signal): Signal following is acknowledged.
Z	COMMUNICATION GUARD	Where best seen (not underway)	WHILE FLYING: I have communication guard duty.

202 SINGLE NUMERICAL FLAG TABLE

		NORMALLY			
FLAG	INDICATION	DISPLAYED	MEANING		
1	(Identify	ring flag for ASW Act	tion Table — See Article 1311.)		
2	(Identifying flag	for Surface Action Ta	able — General — See Article 3208A.)		
3	(Iden Hor	tifying flag for Surfac izon (OTH) Engagen	ce Action Table — Over-the- nent — See Article 3208B.)		
4	(Identifying flag for Surface Action Table — To-the-Horizon Range Engagement — See Article 3208C.) (For use in Submarine and Antisubmarine Exercises — See Article 1306(B).)				
5	BREAKDOWN	Where best seen.	WHILE FLYING: I have a breakdown or I am not under control. ("Not under command" signals, except the night signals in wartime, are to be displayed in addition.		
6	TOWING OPERATIONS	Where best seen.	Identifying flag for towing operations — See Article 3007.		
7	(Identify	ring flag for AAW Act	tion Table — See Article 1001.)		
8	BOAT SIGNAL	Where best seen. a. WHILE FLYING: Steer straight away from ship. b. 8 PORT: Steer left (or to port). When hauled down, cease turn and steady or present course. c. 8 STBD: Steer right (or to starboard When hauled down, cease turn and steady on present course. d. 8 SCREEN: Steer straight TOWAR ship. For special use, see AXP 2.			
9	(Identifying flag for Torpedo Action Table — See Article 3205.)				
0	MILITARY GUARD	Where best seen (not underway). WHILE FLYING: I have military guard duty.			

203 SINGLE SPECIAL FLAG/PENNANT TABLE

FLAG OR PENNANT	INDICATION	NORMALLY DISPLAYED	MEANING
ANS	ACKNOWLEDG- MENT	At yardarm. By OTC or small ship.	AT DIP: Answers signal. CLOSE UP: Acknowledges signal.
		At yardarm. By OTC.	AT DIP: All ships make appropriate routine reports. CLOSE UP: Receipt for a routine report. HAULED DOWN: All routine reports have been received. DIV INS, SQUAD ANS, etc., may be used by the appropriate commanders to obtain routine reports.
	FRACTIONS		In text of signals: Decimal point or one-half.
CODE	USE INTERNA- TIONAL CODE OF SIGNALS (see Article 117)	At yardarm. REPEATED BY ADDRESSEES	Signal group following is taken from International Code of Signals.
CORPEN	STOP THE TURN	Where best seen.	Ships are to steady on a course 20° beyond the direction the ship is heading at the moment the signal is understood.
DESIG	PLAIN TEXT		See Article 115.
	PROCEEDING TO STATION	At yardarm or where best seen.	WHILE FLYING. DESIG — — (letter(s) and/or numeral(s): I am proceeding to station or berth indicated. HAULED DOWN: I am in station or berth.
	ACKNOWLEDGING DAY LIGHT SIGNALING LANTERN	At yardarm.	See ACP 130 series.
EMERG	SIGNAL(S) FLYING ARE TO BE OBEYED AS SOON AS UNDERSTOOD		See Chapter 3.

FLAG OR PENNANT	INDICATION	NORMALLY DISPLAYED	MEANING
FORM	REFUSE BOAT IS REQUIRED	At yardarm or where best seen (not underway).	WHILE FLYING: Refuse boat is required.
INT	SIGNAL NOT UNDERSTOOD	Where best seen. REPEATED BY ADDRESSEES.	Signal now flying not understood. INT 1 Signal now flying not distinguisable. INT 2 You are repeating signal incorrectly. INT preceding a signal: See Article 111.
NEGAT	NEGATIVE	Where best seen. REPEATED BY ADDRESSEES.	 All signals flying without a call are canceled. a call NEGAT: All signals under this call are canceled. b. In reply to a signal: NO or PERMISSION NOT GRANTED. c. NEGAT preceding a signal, see paragraph 111.
	EXEMPTED ADDRESSEE FOLLOWS		In heading: See ACP 130 series.
PREP	REPLENISHING (Receiving ship only) (See Article 3103 for use at night.)	At outboard yard- arm or where best seen.	AT DIP: I expect to disengage in 15 minutes. CLOSE UP: Replenishing completed; I am disengaging at final station. HAULED DOWN: All lines are clear.
	MORNING AND EVENING CEREMONIES/ COLORS (AS APPROPRIATE)	At yardarm (not underway). REPEATED BY ADDRESSEES.	CLOSE UP: Five minutes until ceremony/colors. AT DIP: Commence ceremony/colors. HAULED DOWN: Ceremony/colors completed.
	PREPARTIVE	At yardarm.	PREP preceding a signal, see Article 111.

FLAG OR		NORMALLY	
PENNANT	INDICATION	DISPLAYED	MEANING
PORT	INDEFINITE TURN TO PORT	At yardarm (underway). REPEATED BY ADDRESSEES.	Turn of unspecified amount. See paragraph 603.
	OUT OF ROUTINE	At yardarm (not underway).	Ship out of routine. No honors should be expected.
SCREEN			
SPEED			
STBD	INDEFINITE TURN TO STARBOARD	At yardarm (underway). REPEATED BY ADDRESSEES.	Turn of unspecified amount. See paragraph 603.
	NATIONAL SOPA	Where best seen (not underway).	Senior officer present afloat.
STATION	TAKE PROPER OR ASSIGNED STATION	At yardarm. REPEATED BY ADDRESSEES.	Take proper or assigned station.
TURN			

FLAG OR PENNANT	INDICATION	NORMALLY DISPLAYED	MEANING
1st	ORIGINATOR	Where best seen.	Over call sign: The originator of this signal is as indicated. Intervening ship(s) relay to addressee, or to the OTC if there is no addressee.
2nd	GENERAL INFORMATION	Where best seen.	In place of addressee: For general information; no specific address; no answer required.
3rd	GENERAL INFORMATION AND ACTION	Where best seen.	Preceding the address: This signal, in addition to being addressed to certain ships for action, is for general information and is to be relayed and answered as an "All ships signal."
4th	SIGNAL(S) FROM ATP 2, VOL. II	Where best seen.	Accompanying signal(s) is (are) taken from ATP 2, Vol. II.

204 ABSENTEE INDICATOR TABLE (IN PORT)

FLAG OR PENNANT	INDICATION	NORMALLY DISPLAYED	MEANING
1st	ABSENCE OF OFFICIAL from this ship for a period of 72 hours or less. Use in port only.	Starboard main yard- arm outboard.	Absence of flag officer or unit commander whose personal flag or command pennant is flying on this ship.
2nd	Same as 1st substitute	Port main yardarm inboard.	Absence of chief of staff.
3rd	Same as 1st substitute	Port main yardarm outboard.	Absence of captain. Its use immediately shifts to the executive officer when the captain departs for a known period of absence in excess of 72 hours.)
4th	Same as 1st substitute	Starboard main yard- arm inboard.	Absence of civil or military official whose flag is flying on this ship.

NOTES

- 1. Absentee indicators are displayed in port from sunrise to sunset.
- 2. In the case of the absence of a commanding officer who is acting as a temporary unit commander, both absentee pennants shall be displayed.

EMERG

MTP 1(D), Vol. II

CHAPTER 3

EMERGENCY

300	Instructions
301	Emergency Execute Signal
302	Emergency Alarm Signals
303	Emergency Action Signals

300 INSTRUCTIONS

- a. ACTION. Any signal preceded by EMERGENCY is to be acted upon as soon as understood. If the emergency poses an immediate threat requiring visual/aural attention to be drawn to the originator, the originator is to make six short blasts on the whistles. (Signals from the single flag and pennant tables are not to be preceded by EMERGENCY.) When EMERGENCY is used with several signal groups, it will govern all groups when either separated from the group by TACK or hoisted singly on another halyard. If EMERGENCY is required to govern only one of the several groups, it must immediately precede the group to be governed.
- b. RELAY. Emergency signals made by flags are to be repeated by all ships. Ships having relay responsibilities will not repeat close up until all ships for which they are responsible have answered or repeated close up.
- c. INTERNATIONAL CODE OF SIGNALS. Naval vessels should also be ready at any time to utilize signals from the International Code of Signals, particularly if there is any merchant shipping in the vicinity.

301 EMERGENCY EXECUTE SIGNAL

EMERG . . . EXECUTE all signals flying under a similar call when they are understood. (EMERG without a call executes all signals flying without a call.)

302 EMERGENCY ALARM SIGNALS

EMERGENCY alarm flag signals are to be repeated by all ships, with the call sign of the originator, if other than the OTC, below FIRST SUBSTITUTE hoisted on an adjacent inboard halyard.

EMERG (000 to 359) . . . ATTENTION is called to DANGER or EMERGENCY on *true* bearing from this ship or ship indicated.

EMERG (PORT or STBD) (0 to 18). . . ATTENTION is called to DANGER or EMERGENCY on *relative* bearing indicated in tens of degrees from this ship or ship indicated.

EMERG A . . . AIRCRAFT to be PRESUMED HOSTILE SIGHTED or DETECTED bearing (distance miles).

EMERG B . . . UNIDENTIFIED AIRCRAFT DETECTED or SIGHTED bearing ____ (distance miles).

EMERG C . . . COLLISION COURSE. You are on collision course with me. Keep clear.

EMERG D . . . COLLISION. This ship or ship indicated has been in a collision.

EMERG E . . . ENEMY (or _____) SURFACE CRAFT SIGHTED bearing _____ from this ship (or unit or position indicated) (distance _____ miles).

1. Unidentified

EMERG F . . . AIRCRAFT EMERGENCY. I have aircraft landing in an emergency,

EMERG G . . . ENEMY MISSILE DETECTED or SIGHTED bearing ____ (distance ____ miles).

EMERG H . . . HELICOPTER EMERGENCY. I have helicopter landing in an emergency.

MTP 1(D), Vol. II

EMERG I	SUSPICIOUS ELECTRONIC EMISSIONS (from) or from DESIGNATO nickname if known), indicating an IMMEDIATE THREAT* to the force have been intercepted bearing 1. Air 2. Surface 3. Subsurface 4. Missile-launching site/platform *Appropriate groups from Chapter 20 are to be used when the intercepts do not constitute an immediate threat.
EMERG J	SURFACE CRAFT DETECTED bearing (distance miles).
EMERG K	ENEMY underwater demolition personnel (or) have been detected by this ship or ship indicated. 1. Small battle units 2. Saboteurs 3. High-speed surface craft 4. Miniature submarines
EMERG L	CHEMICAL ALARM.
EMERG M	MINE SIGHTED or DETECTED AHEAD (or bearing from this ship or unit indicated) (range hundred yards) (or in position indicated).
EMERG N	FALLOUT DETECTED (or nuclear explosion of type sighted or detected) (bearing from this ship or unit indicated) (distance miles) (or in position indicated). 1. Air burst 2. Surface burst 3. Subsurface burst 4. Unknown
EMERG O	NUCLEAR ATTACK IS POSSIBLE.
EMERG P	FIRE. This ship or ship indicated has a fire on board (of type). 1. Ordinary combustible materials 2. Oil substance 3. Electrical 4. Hazardous materials (e.g., magnesium, flares)

MTP 1(D), Vol. II

	INVESTIGATING UNCLA tact (or contact) sti (range hundred) 1. Visual 2. Radar 3. Sonobuoy	ll unclassified,			
	SUBMARINE CONTACT (range hundred yand 1. PROBSUB 2. POSSUB, confidence has a possub has a	ds). igh (numeral 3 or	4 may be added fo	llowing DESIG)	∍aring
	SUBMARINE (or snort or dred yards).	periscope) SIG	GHTED bearing	(range	_hun-
	TORPEDO DETECTED yards).	or SIGHTED	bearing	(range hu	ndred
EMERG U	DANGER. You are stand	ling into dange	r.		
EMERG V (PORT			as indicated) (HED (close abo (or bearing	
	DISAPPEARING RADA miles).	R CONTACT	DETECTED be	earing (dis	stance
EMERG X					
EMERGY					
EMERG Z	FRIENDLY SUBMARINE	Ebearing	(distance	miles).	

303 EMERGENCY ACTION SIGNALS

EMERG 1 . . . AVOIDING ACTION. Take individual avoiding action.

EMERG 2 . . . CEASE ALL ACOUSTIC EMISSIONS.

EMERG 3 . . . CEASE ALL ELECTROMAGNETIC EMISSIONS.

EMERG 4 . . . CEASE FIRE. Do not fire.

EMERG 5 . . .

EMERG 6 . . . CLEAR ALL SIDES, using emergency breakaway procedure. (For use in

emergency during replenishment or other abeam operations.)

EMERG 7

EMERG 8 . . . SCREEN SHIPS CLOSE to a distance of 1,500 yards (or hundred yards)

from closest ship of main body.

EMERG 9 . . .

EMERG 0 . . . ALL SHIPS SCATTER and move out at maximum speed on their present bear-

ings from the Guide to a distance approximately 6,000 yards from the nearest

ship.

MTP 1(D), Vol. II

INTENTIONALLY BLANK

CHAPTER 4

FORM

400	Instructions
401	Line Formations
402	Forming Operational Formations and
	Dispositions
403	Forming on a Line of Bearing
404	Forming in the Quickest Sequence
405	Loose Line of Column, Diamond
	Formation, Column Open Order, and
	Reversing the Order of Ships in Column
406	Line Guides Forming on a Bearing
407	Miscellaneous Form Signals
408	Information Signals

400 INSTRUCTIONS. (See Chapter 1.)

- a. GENERAL. Each ship moves independently to the new station unless ships are already formed and the new formation signal can be complied with by the movement of a line (or division or subdivision) as a whole; in which case, the line (or division or subdivision) commander maneuvers his unit by signal into the new station. Whether the Guide is the OTC's ship or an indicated ship, ships and lines invariably form on the Guide.
- b. FORMING IN ORDER OF SEQUENCE NUMBERS. Ships form in numerical order of sequence numbers. Lines form in numerical sequence of divisions (subdivisions) from van to rear if formed astern, from port to starboard if formed to starboard, or from starboard to port if formed to port.
- c. VARYING LINE FORMATIONS. Formations can be varied by using the appropriate basic formation signal, supplemented by signal(s) for the maneuvers listed below. When varying the formation, instructions in paragraphs a and b will apply, except when the supplementary signal specifically amends any portion of the instructions.
 - 1. Ships in line form in the sequence in which their call signs are made, or in the order in which their sequence numbers are indicated.
 - 2. Lines form in the sequence in which the call signs of divisions (subdivisions) are made.
 - 3. Ships in line form in reverse order of sequence numbers.
 - 4. Ships in line form on a specified true or relative line of bearing from their line guide.
 - 5. Line guides form on a specified true or relative line of bearing from the Guide.

401 LINE FORMATIONS

Formation numbers 1 through 19 are allocated for line formations. When forming from an unformed state, ships form at standard distance or distance indicated. If a line has already been formed, ships remain at their present distance apart.

FORM 1 Form COLUMN IN ORDER of sequence numbers (or call signs following). FORM 2 Form COLUMN IN REVERSE ORDER of sequence numbers. FORM 3 Form LINE ABREAST TO STBD in order of sequence numbers (or call signs following). FORM 4 Form LINE ABREAST TO PORT in order of sequence numbers (or call signs following). FORM 5 . . . Form DIVISIONS IN COLUMN TO STBD, division guides bearing abeam. FORM 6 Form DIVISIONS IN COLUMN TO PORT, division guides bearing abeam. FORM 7 Form SUBDIVISIONS IN COLUMN TO STBD, subdivision guides bearing abeam. FORM 8 Form SUBDIVISIONS IN COLUMN TO PORT, subdivision guides bearing abeam. FORM 9 Form DIVISIONS IN LINE ABREAST TO STBD, division guides bearing astern. FORM 10. . . . Form DIVISIONS IN LINE ABREAST TO PORT, division guides bearing astern. FORM 11. . . . Form SUBDIVISIONS IN LINE ABREAST TO STBD, subdivision guides bearing astern.

FORM 12. . . . Form SUBDIVISIONS IN LINE ABREAST TO PORT, subdivision guides

bearing astern.

FORM 13. . . .

MTP 1(D), Vol. II

FORM 14.			
FORM 15.			
FORM 16.			
FORM 17.			
FORM 18.			
FORM 19.			

402 FORMING OPERATIONAL FORMATIONS AND DISPOSITIONS

a. FORMATIONS are allocated numbers from 20 to 99, with formations designed for similar operational purposes allocated numbers from the same block. The purpose of a formation is indicated by appending the appropriate purpose identification letter(s) in Vol. I to the formation number. Numbers not allocated in Vol. I may be used in operational orders as desired by appropriate authority. The following blocks of signals are allocated for operational purpose formations.

FORM 20 to 29 Form DESTROYER TYPE formation indicated.
FORM 30 to 39 Form LARGE COMBATANT SHIP formation indicated.
FORM 40 to 49
FORM 50 to 59 Form TRANSPORT/LOGISTIC formation indicated.
FORM 60 to 69 Form REPLENISHMENT formation indicated.
FORM 70 to 79 Form AMPHIBIOUS formation indicated.
FORM 80 to 89 Form SURFACE ACTION formation indicated.
FORM 90 to 99 Form MISCELLANEOUS formation indicated.

An operational formation is signaled by using the FORM pennant, formation number and purpose letter(s), followed by course, axis (if other than course), and speed (if required) indicated by numeral groups separated by a tack. The purpose letter(s) simplifies the procedure when reforming because of the rule that in shifting from a basic ready formation to an antiair warfare or nuclear defense formation, there is usually no change in the Guide, speed, or axis.

b. ADDITIONAL TYPE formations may be specified by type commanders for use by ship types not included in the blocks of signals above. These are indicated by prefixing ship type indicator letters from ACP 130 to the number of the formation assigned by the type commander. The number used in this way is in no way related to the blocks of signals above. FORM N is used to signal a type formation.

Example: FORM N-M7.... Form minesweeper formation number 7.

c. DISPOSITIONS are assigned number-letter designations based on the number of the disposition and the purpose identification letter suffix(es). A type indicator letter may be inserted between the number and the purpose letter if desired. FORM M is used to signal a disposition.

Examples: FORM M 2J Form approach disposition 2. FORM M 2RC Form carrier cruising disposition 2.

403 FORMING ON A LINE OF BEARING

Ships form on the line guide or ship indicated on the bearing (true or relative) indicated or its reciprocal.

- a. UNFORMED STATE. When forming from an unformed state on the present or ordered course, ships form in the quickest sequence, or in order of sequence numbers or call signs following from PORT to STBD.
- b. DISTANCE. When forming from an unformed state, ships form at standard distance or distance indicated; however, if already formed, ships form at their present distance apart.
- c. FORMED STATE. If altering a line of bearing, ships form in their present sequence. If altering from column to line abreast, or vice versa, with the Guide not an end ship, ships ahead of the Guide (if in column) or to port of the Guide (if in line abreast) form on the bearing indicated, the remainder on the reciprocal. If the Guide is not an end ship and ships are not altering from column to line abreast or vice versa, an alteration of the line of bearing of exactly 90° must be carried out in two separate increments. (See Article 140.)

FORM [000 to 359] SHIPS ARE TO FORM ON TRUE BEARING indicated from their guide or ship indicated on the present course or course indicated.

FORM [PORT or STBD] [0 to 18]. . . . SHIPS ARE TO FORM ON RELATIVE BEARING indicated in tens of degrees from their guide or ship indicated on the present course or course indicated.

404 FORMING IN THE QUICKEST SEQUENCE

The quickest sequence depends on each ship's present position relative to the line guide or ship indicated, and not on the numerical order of sequence numbers.

FORM A FORM COLUMN IN THE QUICKEST SEQUENCE on the most advanced ship or ship indicated, at present distance if already formed, or at standard distance or distance indicated.

Unless a particular ship has been indicated, the ship to be formed on is the most advanced ship on the present course. Remaining ships are to form astern of her in the quickest sequence, according to their positions relative to her. If the ship to be formed on is indicated, ships are to form ahead or astern of her in the quickest sequence.

FORM B FORM SINGLE LINE ABREAST IN QUICKEST SEQUENCE on the Guide or ship indicated on the present course or course indicated, at present distance if already formed, or at standard distance or distance indicated.

Ships are to form on the nearest beam of the Guide or ship indicated, relative to her course or to the course indicated, in the quickest sequence according to their positions relative to her.

405 LOOSE LINE OF COLUMN, DIAMOND FORMATION, COLUMN OPEN ORDER, AND REVERSING THE ORDER OF SHIPS IN COLUMN

FORM C PORT/STBD . . . FORM LOOSE LINE OF COLUMN TO PORT OR STBD as indicated.

A loose line of column can only be formed when ships are in column. The leading ship is automatically to become the Guide. Ships are to take station on the indicated quarters of the Guide on an approximate line of bearing within 15° of column. Distance may be increased to reduce yawing.

FORM D FORM DIAMOND.

RESTRICTION—When ships are in diamond formation, a wheel is not to exceed 30°.

FORMING—A diamond formation can only be formed when ships are in column. The leading ship automatically becomes the Guide. The second ship in the column is to form on the port quarter of the Guide, the third ship on the starboard quarter, and the fourth ship in the wake. If there are more than four ships, additional ships are to form a second diamond on the fourth ship, odd numbers (counting from the leading ship) forming to starboard, even numbers forming to port. Unless otherwise ordered:

- 1. Ships are to use their present ordered distance as D in Figure 1-6.
- 2. When the column is formed of large and small ships, ships use the distance for the large ship as D throughout the formation.
- 3. When the formation is terminated, ships use their D distance as their present ordered distance when proceeding to new stations.

FORM E FORM COLUMN OPEN ORDER.

In forming column open order, ships are displaced on both sides of the course, even-numbered ships (counting from the leading ship) forming to port and odd-numbered ships to starboard. The leading ship automatically becomes the Guide. The second ship forms 4° on the port quarter of the Guide and the third ship 2° on the starboard quarter of the Guide; remaining ships form alternately astern of the second or third ship on the appropriate side. Ships are to form at the same distance from the Guide as if they were in column. If the column is already formed, ships are to remain at their present ordered distance unless otherwise directed.

FORM F PORT/STBD . . . REVERSE THE ORDER OF SHIPS IN COLUMN in succession from the rear. Ships are to sheer out on the side indicated. One or two numerals may be added to indicate speed of all ships except the rear ship.

> The rear ship automatically becomes the Guide and increases speed to one knot less than stationing speed, passing the ships ahead of her on the side indicated. Other ships reduce speed to seven knots or as indicated. At the appropriate time, each ship in succession from the rear is to increase speed and take station in the wake of the ship which was previously next astern to her. All ships will maintain speed after taking station in the new column until the OTC reduces speed by speed signal. If the maneuver is ordered when ships have no way on, the new Guide's speed will be signaled; each ship will subsequently get underway in succession from the rear in time to complete the maneuver.

406 LINE GUIDES FORMING ON A BEARING

- a. If altering the line of bearing of line guides, line commanders move their lines by signal into their new stations. Line guides form on the bearing (true or relative) indicated from the Guide or ship indicated. If the Guide is not in an end line, lines are to form on the bearing (true or relative) indicated or its reciprocal, whichever is the nearer.
- b. If altering from line guides ahead and astern to line guides abeam, lines ahead form on the bearing, remaining lines on the reciprocal. If altering from line guides abeam to line guides ahead and astern, lines to port form on the bearing, the remainder on the reciprocal.
- c. If the Guide is not in an end line and line guides are neither ahead and astern nor abeam, alterations of the line of bearing of exactly 90° must be carried out in two separate increments.

FORM G [SUBDIV DIV SQUAD FLOT/GROUP] [000 to 359]. LINE GUIDES (or guides of units indicated) are to form on the TRUE BEARING indicated from the Guide or ship indicated at their present interval apart and in their present sequence.

FORM G

[SUBDIV DIV SQUAD FLOT/GROUP] [PORT or STBD] [0 to 18] LINE GUIDES (or guides of units indicated) are to form

on the RELATIVE BEARING indicted in tens of degrees from the Guide or ship indicated at their present interval apart and in their present sequence.

407 MISCELLANEOUS FORM SIGNALS

FORM H [PORT		RM preliminary MCM format from ATP 24 following RT/STBD is optional.	
FORM I			
FORM J			
FORM K	FORM CARTWHEEL/DISP 3). Formation/disposition co- identification letter — se degrees — boundary range	enter (unit in station Zero/Z ector boundaries in true	Z if allocated). Sector bearing in tens of
Example: F	Unless otherwise ordered, 0 SECTOR ALFA — 000 to 1 SECTOR BRAVO — 120 to SECTOR CHARLIE — 240 SECTOR DELTA — 000 to ORM K — ZZ c/s PO — Alfa co JK — Delta c/s PO c/s L 2733 — 2226 (Helos) c/	20 — 6 to 20 kiloyards 240 — 6 to 20 kiloyards to 359 — 6 to 20 kiloyards 359 — 0 to 6 kiloyards /s 1A c/s YZ — Bravo c/s AB of AD — Echo 1420 — 2226 (Held	c/s EJ — Charlie c/s
FORM L	RESCUE DESTROYER (R	ESDES) form astern of carr	ier by quickest means
Example: F0	cated) (speed) ORM L2 STBD 25 Rescue a	rd distance (carrier altering course	n of carrier by quick-
FORM M	FORM DISPOSITION number	per (See Article 402c.	.)
FORM N	FORM TYPE FORMATION	number (See Article	402b.)
FORM O	mation. FORMING—Ships are to Guide or ship indicated,	or ship indicated (course) at present distance itted when in this for- as indicated, on the its reciprocal, in the

MTP 1(D), Vol. II

FORM P	ROTATEAXIS to bearing indicated. 1. Antiair warfare 2. Disposition 3. Formation 4. Picket 5. Search
FORM Q	
FORM R	FORM PRE-ORDERED FORMATION. Form pre-ordered formation number codeword
FORM S	
FORM T	
FORM U	SHIPS RESUME previous relative bearings and distances from their guides Ships move independently.
FORM V	LINE GUIDES RESUME previous relative bearings and distances from the Guide. Commanders of lines move their lines by signal to take up new stations.
FORM W	RESUME PREVIOUS FORMATION. Line guides resume previous relative bearings and distances from the Guide. Ships in line resume previous relative bearings and distances from the line guides. Line commanders direct movements.
FORM X	
FORM Y [Port or	on the Guide or ship indicated (course) at present distance (distance hundred yards). Use of PORT/STBD is optional See Figure 1-5A. Ships are to form at present distance or as indicated, within 15° of the nearest beam of the Guide or ship indicated, relative to her course or the course indicated, in the quickest sequence according to their positions relative to her.
FORM Z	REMAIN IN PRESENT FORMATION (or disposition) (until).

MTP 1(D), Vol. II

408 INFORMATION SIGNALS

A FORM	FORCE is in DISPOSI	TION number	_ (I am occupying	station).
B FORM	FORCE is in FORMATI occupying station(s) in		(this unit or unit(s) i	ndicated is (are)
C FORM				
D FORM				
EFORM				
FFORM				
G FORM	GUIDE of is unit indicated distance 1. Disposition 2. Formation 3. This unit or unit in		_ or bearing	from this unit or
H FORM [PORT	or STBD]	MCM anglelowing DESIG) is indicated.	(letter designator to degrees to POF	from ATP 24 fol- RT or STBD as
Example: H	FORM PORT DESIGE 5	5 MCM angle I	E is 5° to PORT.	
I FORM				
J FORM				
K FORM	FORMATION CENTER hundred yards.	R bearsfrom	the Guide or ship in	dicated distance
L FORM				
M FORM [PORT	or STBD]	mation	N. After the turn, ta (formation number to PORT or STBD	er from ATP 24

MTP 1(D), Vol. II

N FORM O FORM P FORM DIRECTION OF AXIS is bearing indicated. 1. Antiair warfare 2. Disposition 3. Formation 4. Picket 5. Search Q FORM R FORM S FORM SEQUENCE NUMBERS are in order of call signs following. T FORM U FORM V FORM W FORM X FORM Y FORM MAIN BODY is formed as indicated. (a) Formation number (b) Formation course (c) Formation speed (d) Formation axis (if other than course) (e) Guide or guide's station Assigned stations Z FORM MAIN BODY is formed by sector method.

MTP 1(D), Vol. II

CHAPTER 5

STATION

500 Instructions
501 Action Signals
502 Information Signals

500 INSTRUCTIONS (See Chapter 1.)

To station a unit is to order it to proceed to a position with reference to the Guide, a geographic position, or an indicated unit. When ordered, a ship hoists DESIG followed by her station letter(s) and/or numeral(s) by day to confirm to the OTC that she has correctly interpreted his stationing instructions and to indicate to adjacent ships the position to which she is proceeding. By hauling down, she indicates that she is in station.

- a. MAINTAINING TRUE BEARING.
- (1) ON ARRIVAL IN STATION, a unit is to maintain the true bearing from its guide or indicated unit, even though its station may have been ordered by means of a relative bearing or area.
- (2) WHEN MAIN BODY ALTERS COURSE WITHOUT SIGNAL to all ships present, stationed units are to maintain true bearings and distances from the units on which stationed.
- (3) UNIT STATIONED BY BEARING FROM A UNIT OF A CIRCULAR FORMATION, rather than by the circular method, is to maintain true bearing from the unit on which stationed when the formation axis is rotated, unless otherwise ordered.
 - b. MANEUVERING REQUIREMENTS.
- (1) WHEN THE GUIDE ALTERS COURSE, the alter course signal addressed to all ships present will instruct stationed units whether they are to maintain true bearings or regain relative bearings.
- (2) UNITS AUTOMATICALLY FORM PART OF UNIT ON WHICH STATIONED, for maneuvering purposes, when stationed on the unit at or inside the maneuvering interval or within one mile of a single ship unit.

- c. TACTICAL REQUIREMENTS
- (1) WHEN A UNIT CONSISTING OF MORE THAN ONE SHIP TAKES STATION, including one stationed by the circular method, the unit commander is to place his unit in a formation appropriate to the tactical situation, with the unit guide occupying the indicated station.
- (2) WHEN THE OTC SIGNALS A SPECIFIC DUTY, such as "aircraft warning picket," to amplify the stationing signal, the performance of the assigned specific duty takes precedence over accurate station keeping.
- d. EXCHANGING AND CHANGING STATION. When two ships in a formation are ordered to exchange stations, the rules given under STATION J will apply. When a change in the formation is ordered that requires only one ship to move to a new station, she is to proceed to her new station by the shortest route which will not interfere with other ships. When a change in formation is ordered that requires two or more ships to move to a new station, they are to comply with the rules for exchanging station.

501 ACTION SIGNALS

STATION TAKE proper or assign	ned station.
INT STATION WHAT is y	our station (or that of)?
STATION (PORT or STBD) (0 to 18)	TAKE station on RELATIVE bearing indicated in tens of degrees from the Guide or unit indicated at standard distance (or at a distance of miles).
dicated at	on on TRUE bearing indicated from the Guide or unit instandard distance (or at a distance of miles). Take station on true bearing 045° from Cruiser 10 at
STATION (4, 5, or 6 numerals)	TAKE station on CIRCLE indicated by first numeral(s) on the bearing, clockwise from formation axis, indicated by last three numerals.

	numerals) or letter(s) and/or l(s) Take station indicated. When ordered, ships while proceeding to station will hoist station letter(s) and/or numeral(s) following DESIG.
STATION A	AHEAD. Take station from the Guide or unit indicated ahead at standard distance (or at a distance of miles).
STATION B	ASTERN. Take station from the Guide or unit indicated astern at standard distance (or at a distance of miles).
STATION C	VAN. Take station in the van (at distance approximately miles).
STATION D	REAR. Take station in the rear (at distance approximately miles).
STATION E	RESUME station.
STATION F	SEQUENCE 1. Assume sequence number 2. Assume sequence number and take station accordingly.
STATION G	SHIP indicated is to TAKE station and when in station is to become GUIDE.
STATION H	SHIP indicated is to take GOALKEEPING station on unit indicated. (Control ship is) The goalkeeper ship shall normally be control ship and have responsibility for maneuvering the protected unit. In exceptional circumstances a unit other than the goalkeeper may be the control ship; if so "Control ship is " shall be added to the signal.
STATION I	ADJUST station 1. To admit ship or unit indicated 2. To close gap in the screen 3. To facilitate signaling with this unit or unit indicated

STATION J. . . EXCHANGE. Ships indicated exchange stations.

RULES FOR EXCHANGING STATION

- 1. BOTH SHIPS IN SAME COLUMN. The advanced ship is to haul out to port, the ship in the rear to starboard. Both ships are then to proceed to their new stations.
- 2. BOTH SHIPS IN SAME LINE ABREAST OR LINE OF BEARING. When in line abreast, the ship to port, or when in line of bearing, the after of the two ships, is to move over to a position astern of the other ship. Both ships are then to proceed to their new stations.
- 3. EACH SHIP IN DIFFERENT LINE. If the lines are formed with line guides bearing abeam, the ship in the port line is to pass astern of the ship in the starboard line; if line guides are bearing astern or are in a line of bearing, the ship in the rear line is to leave the other on the port hand. If the ship in the rear line is to port of the ship with which she is exchanging stations, she is to pass astern of the ship in the leading line.
- 4. SHIPS NOT IN A LINE. With respect to each other, both ships are to act in accordance with the International Regulations for Preventing Collisions at Sea.
- 5. SHIPS IN DIAMOND FORMATION. Ships exchanging stations use rule for both ships in same column, line abreast or line of bearing, whichever is applicable.
- 6. LARGE AND SMALL SHIPS. Exchanging station between ships of different size (large/small) should be avoided if possible because of the difference in future and previous distances between these and other units. If required to exchange station between ships of different sizes, the OTC must first order a distance of 1,000 yards for all units. Once this distance has been achieved, the maneuver can take place. On completion the OTC orders ships to resume standard distance or previously ordered distance.
- STATION K . . MAIN BODY stationing is to be by SECTOR METHOD. Ships indicated take station in sectors indicated.
- STATION L. . . TAKE ____ station on ship assigned or indicated for REPLENISHMENT or TRANSFER. PORT or STBD may follow.
 - 1. Abeam
 - 2. Alongside
 - 3. Astern
 - 4. Lifeguard (1,000 yards astern unless otherwise indicated)
 - 5. Quarter
 - 6. Standby (300 or 500 yards astern)
 - 7. Standby (400 yards abeam)
 - 8. VERTREP

STATION M . .

STATION N	OPEN. MCM ships are to open from the Guide (or) and take up station. 1. Subdivision guides
STATION O	MAINTAIN minesweeping station ASTERN of the float of the next ahead (at range $___$).
STATION P	SHIPS MAINTAIN STATION within tens of degrees of ordered bearing and within hundred yards of ordered distance from the Guide.
STATION Q	
STATION R	REPORT when you (or) are in station.
STATION S	STATION ASSIGNMENTS. In formation/disposition number, station(s) is (are) to be taken by unit(s) indicated. Each station number is immediately followed by the call sign of the ship to which it is assigned. When lettered stations are being assigned, TACK must follow the station letter.
Example: ST	TATION S 40—S1— c/s 4AH—A— c/s 2PT—B— C/s 3ZH In formation number 40, station S1 is to be taken by ship whose call sign is 4AH, station A by 2PT, and station B by 3ZH.
STATION T	PICKET STATION. Take () picket station on bearing from screen center or unit indicated distance miles. 1. AAW 2. ASW 3. SW
STATION U	REMAIN in your present station.
STATION V	HOIST your sequence number (or). 1. Hoist your station number
STATION W	TAKE LOOSE STATION on carrier (or unit indicated) on Circle 4 (or circle indicated) on approximate bearing, for air defense. Ship should conform loosely to the carrier's movements, adjusting her bearing as necessary to avoid excessive use of high speed, and with full freedom of maneuver to provide the best missile defense in the event of an air attack.

station assignments must be listed in the ships addressed. Sectors may b Example: Dp5—Dp8 STATION X 13—1—2Rp2 D	ning of any of the following suffixes, the n the same sequence as the call signs of e indicated if desired.
 is R2. Antiair warfare protection Anchoring in formation in accordance with berthing plan. Ships are to take station on the guide. Nuclear attack defense Attack Communication linking ship Electronic countermeasures Exercise Gain information of the enemy Guided missile defense Lifeguard 	number) (unit on which to take station may be indicated) 14. Screening this or unit indicated 15. Small boat defense 16. Smokelaying 17. Submarine defense
STATION Y AREA. Outer limit of area (indicated approach disposition is to be the state of the state	by letter following suffix) in group of nousand yards.
STATION Z AREA. Take station in approach disp suffix) in group. Disposition is 1. Right flank 2. Left Flank 3. Center	position area (indicated by letter following

Example: STATION Z1E8... Take station in approach disposition area E in right flank group. Disposition is to be 8,000 yards.

MTP 1(D), Vol. II

502 INFORMATION SIGNALS

A STATION	IN STATION. This unit or unit indicated is in station.
B STATION	UNABLE TO KEEP STATION. This unit or unit indicated is unable to keep station or carry out movements directed (due to). 1. Breakdown 2. Engineering restrictions 3. Weather
C STATION	
D STATION	
E STATION	
F STATION	
G STATION	
H STATION	
I STATION	SEQUENCE of units from left to right is (or is to be)
J STATION	SEQUENCE of units clockwise from station 1 is (or is to be)
K STATION	
L STATION	
M STATION	MY STATION or station of unit indicated is

N STATION
O STATION
P STATION
Q STATION
R STATION
S STATION
T STATION UNASSIGNED station number(s) are
U STATION RADIUS of station is to be miles.
V STATION MAIN BODY is stationed by SECTOR METHOD
W STATION
X STATION
Y STATION
Z STATION

MTP 1(D), Vol. II

CHAPTER 6

TURN

600	General Instructions
601	Turn of Specified Amount
602	Stopping Turn Short of
	Signaled Amount
603	Turn of Unspecified Amount
604	Miscellaneous Turn Signals
605	Evasive Steering
606	Information Signals

600 GENERAL INSTRUCTIONS

a. REDUCED TACTICAL DIAMETER. Reduced tactical diameter will be used for turns of unspecified amount and for emergency turns. (The emergency turn signal is to be acted upon as soon as it is understood.)

b. RESTRICTIONS

- 1. At night or in low visibility (except in emergencies), formation turns in excess of 90° should normally be executed in two or more increments by the delayed executive method.
- 2. Normally it is inadvisable to exceed 90° when ships having dissimilar turning characteristics are involved.

601 TURN OF SPECIFIED AMOUNT

The direction of the turn must always be indicated. The side to which the turn is to be made is indicated with the use of the PORT flag or STBD pennant immediately after TURN. The amount of the turn is indicated in one of two ways:

- 1. By three numerals, giving the *true* course to which the ships are to turn.
- 2. By one or two numerals, giving in tens of degrees the turn *relative* to the present course. The ANSWER pennant may be used to indicate a turn to within 5°.

Consecutive turns by the second method should not be made; after one such turn the next turn should be ordered for a specified direction, using three numerals.

TURN [PORT or STBD] [1 to 36] or [000 to 359]. . . . TURN TOGETHER in the direction indicated, the number of tens of degrees indicated, or to the course indicated.

Example: TURN PORT 3 ANS . . . Ships are to turn together to port 35°.

TURN STBD 125 . . . Ships are to turn together to starboard to course 125°.

602 STOPPING TURN SHORT OF SIGNALED AMOUNT

By Flags

CORPEN (Singly) STOP the turn and STEADY on a course which is 20 degrees beyond the direction in which the ship is heading at the moment the signal is understood. (The OTC should then confirm the course to steer by signal CORPEN A.)

By Radio or Flashing Light

CORPEN C. Stop the turn. Steady on course ____.

603 TURN OF UNSPECIFIED AMOUNT

The PORT flag or STBD pennant, following the TURN pennant, orders ships addressed to turn together an unspecified amount in the direction indicated, using a reduced tactical diameter. If the direction of the turn has not been decided, TURN STBD and TURN PORT may be hoisted simultaneously on adjacent halyards. When the direction has been decided, the signal no longer required should be negated. The OTC may direct, as standard practice in his force, that the TURN pennant is to be omitted.

By Flags

TURN STBD

Hoisted close up STAND BY TO TURN TOGETHER to starboard using reduced

tactical diameter.

Dipped TURN TOGETHER to starboard. Rehoisted close up . . STAND BY to stop turning.

Hauled down. STOP the turn. Steady on course 20 degrees beyond that on which

the ship is heading when the signal is hauled down. (The OTC should then confirm the course on which to steady by signal COR-

PEN A.)

TURN PORT

Hoisted close up. . . . STAND BY TO TURN TOGETHER to port using reduced tactical

diameter.

Dipped TURN TOGETHER to port. Rehoisted close up . . STAND BY to stop turning.

Hauled down. STOP the turn. Steady on course 20 degrees beyond that on which

the ship is heading when the signal is hauled down. (The OTC should then confirm the course on which to steady by signal COR-

PEN A.)

By Radio or Flashing Light

TURN STBD STAND BY TO TURN TOGETHER to starboard using reduced

tactical diameter.

Executive Signal TURN TOGETHER to starboard.

TURN PORT STAND BY TO TURN TOGETHER to port using reduced tactical

diameter.

Executive Signal TURN TOGETHER to port.

CORPEN C . . STOP THE TURN. Steady on course ____ .

Whistle Signals

Required whistle signals for starting and stopping turns are shown below.

STARTING A TURN	Each ship is to sound one short blast on starting a turn to starboard, two short blasts when starting a turn to port.
STOPPING A TURN	Each ship is to sound one prolonged blast when reversing her rudder to stop a turn.

604 MISCELLANEOUS TURN SIGNALS

TURN A	FLIGHT OPERATIONS (OUT-OF-WIND) (course) (speed). Turn to course for out-of-wind operation of fixed-wing aircraft. The Guide is, at the same time as altering course, to proceed at the speed required for out-of-wind flying operations. Direction of turn may be indicated.
TURN B	
	ALTER COURSE TOGETHER as necessary to carry out maneuver as previously ordered.
TURN D	RESUME PREVIOUS COURSE together.
TURN E	RESUME BASE COURSE (or course) together.
TURN F	FLIGHT OPERATIONS. Turn to the course for flight operations. The Guide is, at the same time as altering course, to proceed at the speed required for flying operations. Direction of turn may be indicated.
605 EVASIVE S	STEERING
TURN G	
TURN H	SCREEN SHIPS carry out an INDEPENDENT ZIGZAG (base course).
TURN I	
TURN J	Main body is to alter to the promulgated ASMD course (or) (by the quickest route unless otherwise indicated) and to deploy decoys as appropriate.
	Where the course differs from the promulgated ASMD course (i.e., TURN J 020), the in force ASMD course as promulgated by the signal group A CORPEN does not automatically change.
TURN K	MAIN BODY is to ALTER COURSE to (by the quickest route unless otherwise indicated) to optimize for employment of chaff for confusion.
TURN L	MAIN BODY is to ALTER COURSE (by the quickest route unless otherwise indicated) to optimize for employment of chaff for distraction and hard kill.
TURN M	MAIN BODY is to ALTER COURSE (by the quickest route unless otherwise indicated) to optimize for employment of chaff for seduction and hard kill.
TURN N	
TURN O	

TURN P	
TURN Q	
TURN R	RESUME PREVIOUS ZIGZAG. Base course is
TURN S	CEASE ZIGZAGGING and REMAIN ON COURSE being steered when this signal is executed.
TURN T	
TURN U	
TURN V	RESUME BASE COURSE, SIGNALED SPEED, and ZIGZAG TOGETHER after aircraft operations. The Guide is, at the time of altering course, to proceed at the speed in force before flying operations commenced. If a zigzag was in force before flying operations commenced, the same zigzag is to be resumed 10 minutes after the execution of the signal.
TURN W	WEAVE. Carry out a (Base course is) 1. Narrow weave so as to remain within hundred yards of station. 2. Broad weave so as to remain within 2,000 yards of station. Weaving will not be used while a short-leg zigzag is in effect, or when the screen ship's speed necessary to maintain station will exceed maximum effective sonar speed. For use in conjunction with a zigzag. See ATP 3.
TURN X	CEASE ZIGZAGGING and RESUME BASE COURSE (or course). (Resume zigzagging in minutes.)
TURN Y	
TURN Z	ZIGZAG in accordance with plan number/letter (if a lettered plan, DESIG is to be used). Base course is (Execution time is) On receipt of the execution signal to start zigzagging, or at the time when the zigzag is due to start or be resumed, ships are to turn together to the course shown on the diagram for that particular time.

MTP 1(D), Vol. II

606 INFORMATION SIGNALS

A TURN	
BTURN	
C TURN	
D TURN	
ETURN	
FTURN	
G TURN	
HTURN	
ITURN	
J TURN	JOINING INFORMATION is as indicated. (a) Base course (b) Speed (c) Zigzag plan in force (d) Zero time of zigzag (e) Next alternation of base course is likely to be at
KTURN	ASMD course for confusion will be
LTURN	ASMD course for distraction will be
M TURN	ASMD course for seduction will be .

N TURN
O TURN
P TURN
Q TURN
R TURN
S TURN
T TURN
U TURN
V TURN
W TURN
X TURN [PORT or STBD] MY RUDDER is left/right as indicated.
Y TURN CONVOY is carrying out convoy zigzag plan Zero time is ZULU. (Base course is)
Z TURN FORCE is carrying out zigzag plan Zero time is (Base course is)

MTP 1(D), Vol. II

INTENTIONALLY BLANK





MTP 1(D), Vol. II

CHAPTER 7

CORPEN

700	Instructions	
701	Ordering a Wheel	
702	Action Signals	
703	Information Signals	

700 INSTRUCTIONS

See Chapter 1.

- a. SINGLE LINE FORMATIONS
- (1) WHEELING IN SINGLE COLUMN. The leading ship is to alter to the new course and become the Guide. Remaining ships are to follow round in her wake. When the leading ship of a column is the Guide and alters course without signaling the alteration to her column, the remaining ships of the column are to follow in the wake of the leading ship, unless the leading ship has signaled breakdown, man overboard, or to disregard her movements. When the leading ship is not the Guide and alters course without signaling, all other ships in formation should disregard this movement and remain in formation. In such cases, caution should always be exercised as prescribed by Rule 2b of the International Regulations for Preventing Collisions at Sea.
- (2) IN COLUMN OPEN ORDER. Upon execution of the signal ordering the wheel, ships are first to form column at once, without further signal, then carry out the wheel in accordance with paragraph (1). They are automatically to resume column open order after all ships have completed the wheel.
- (3) IN LOOSE LINE OF COLUMN. Upon execution of the signal ordering the wheel, ships in the line are to turn toward the leading ship of the line and follow her wake to complete the maneuver. On completion, a loose line of column does not reform automatically unless circumstances make it necessary.

- (4) WHEELING IN SINGLE LINE ABREAST. The pivot ship is to alter to the new course and become the Guide. Remaining ships are to: increase speed as necessary up to stationing speed to complete the maneuver expeditiously; alter course independently to regain by the most direct route their previous relative bearings and distances from the pivot ship; and adjust their course and speed to that of the pivot ship.
- (5) DIAMOND FORMATION. If a wheel is executed when in diamond formation, the leading ship is to turn to the new course and become the Guide. Remaining ships are to adjust course and speed to regain previous relative bearings from the "Guide" expeditiously.
 - b. MULTIPLE LINE FORMATIONS
- (1) SHIPS IN COLUMN WITH LINE GUIDES BEARING ABEAM. The leading ship of the pivot column is to turn to the new course and become the Guide. Leading ships of the remaining columns are to alter course independently to resume their previous relative bearings and distances from the Guide by the most direct route. The speed of the remaining columns is to be increased by signal from each column commander to one knot less than stationing speed. Remaining ships are to follow the leading ship of their column. The subsequent reduction of speed of each column to that of the pivot column is to be ordered by signal by each column commander.
- (2) SHIPS IN LINE ABREAST WITH LINE GUIDES BEARING ASTERN. The Guide changes to the pivot ship on execution of the signal. The leading line is to alter course as described in paragraph a(4). Each succeeding line is to alter course in a similar manner, in the same water as that in which the leading line wheeled. At the appropriate moment each line commander will order his line to wheel.
- (3) ADJUSTING SPEED OF PIVOT. At the same time that the OTC orders the wheel, he may reduce the speed of the pivot ship or pivot column, to expedite the completion of the maneuver. This reduction is effected by ordering a new signaled speed, which remains in force until otherwise ordered. If the speed is reduced when in column with line guides bearing abeam, all ships of the pivot column are to proceed at the new signaled speed at the same time as the Guide. In line abreast with line guides bearing astern, all lines except the leading line are to proceed at the new signaled speed at the same time as the Guide.

701 ORDERING A WHEEL

The direction of the wheel must always be indicated. The side to which the wheel is to be made is indicated with the use of the PORT flag or STBD pennant immediately after CORPEN. The amount of the wheel is indicated in one of two ways:

- 1. By three numerals, giving the *true* course to which the wheel is to be made.
- 2. By one or two numerals, giving the number of tens of degrees ships are to wheel *relative* to the present course. The ANSWER pennant can be used to indicate a wheel to within 5° .
- a. RESTRICTIONS. Wheels are not to be carried out when ships are in a circular formation or formed on a line of bearing, or when the line guides are neither astern nor abeam of one another, except that each line may be ordered to wheel simultaneously. A wheel is limited for certain formations:
 - 1. WHEN SHIPS ARE IN SINGLE COLUMN, the wheel is not to exceed 180°.
 - 2. WHEN SHIPS ARE IN SINGLE LINE ABREAST OR IN MULTIPLE LINE FOR-MATION, the wheel is not to exceed 90° and is to be limited so that units do not become unduly close during the maneuver.
 - 3. WHEN SHIPS ARE IN DIAMOND FORMATION, the wheel is not to exceed 30°.
- b. CAUTION. A ship turning outside the wake should not swing beyond the new course, but should remain steadied parallel to the line on the new course. She should then wait until the ship next astern has completed the wheel, before gradually regaining station. A ship turning inside the wake may ease her rudder as soon as the mistake becomes apparent, but it must be realized that a reduction in speed will probably be necessary to avoid coming dangerously close to the ship next ahead.

CORPEN [PORT or STBD] [1 to 18] or [000 to 359] . . . Alter course by WHEELING in the direction indicated, the number of tens of degrees indicated, or to the course indicated.

Example: CORPEN PORT 9... Alter course by wheeling to port 90°.

CORPEN STBD 130... Alter course by wheeling to starboard to course 130°.

MTP 1(D), Vol. II

702 ACTION SIGNALS

NT CORPEN	WHAT is your course (and speed)?
CORPEN	STOP the turn and STEADY on a course which is 20 degrees beyond the direction in which the ship is heading at the moment the signal is understood. (The OTC should then confirm the course on which to steady by signal CORPEN A.)
naled by the CORF carrying out the mo	n-together or wheel does not meet the requirements of the OTC, a special method is signer. EN pennant followed by an alphabetical flag and three numerals as set out below. When eaning of these signals, course is to be altered the shortest way. If it is necessary to spectithe alteration, the STBD pennant or PORT flag is to follow the three numerals.
CORPEN A	STEER COURSE
CORPEN B	BASE COURSE. Adjust base course to Not to be used with adjustments over 10°. Change of course is absorbed and relative stations regained without stopping evasive steering.
CORPEN C	STOP THE TURN. Steady on course
CORPEN D	WHEEL SIMULTANEOUSLY. Each line (or unit indicated) wheel simultaneously to course Each line or unit designated is to wheel simultaneously to the new course. On completion of the maneuver, ships in each line will be in their former relative positions, and line guides will have maintained their true bearings and intervals from the Guide. If line guides are at less than maneuvering interval apart, wheels in this manner are to be limited so that lines do not become unduly close during the maneuver. The restrictions on wheeling (Article 701a) apply to each line separately.
CORPEN E	STEER SAFETY COURSE ().
CORPEN F	ALTER COURSE to (at). Units are to maintain true bearings and distances from the Guide (or). At the time ordered, single ship units are to turn individually to the new course. Remaining units are to turn to the new course as directed by their unit commanders, who have discretion as to the method of altering the course of their units and their resulting formation.

MTP 1(D), Vol. II

When ships in circular formation are to alter course with units maintaining relative bearings, the course is altered to the new course and the formation axis rotated the same number of degrees in the same direction. Altering course and rotating the axis may be done successively or simultaneously. If done successively, course may be altered by a turn-together or by CORPEN F; the axis should then be rotated to conform with the maximum of 60° in one step. If done simultaneously, course may be altered with the rotation of the formation axis the same number of degrees in the same direction by CORPEN G, or to the same true direction by CORPEN H.

CORPEN G	ALTER COURSE to (at) and ROTATE the formation axis the SAME NUMBER OF DEGREES and in the same direction as the alteration of course. *Note: See instructions under CORPEN H.
CORPEN H	ALTER COURSE to (at) and ROTATE the formation axis to the SAME TRUE DIRECTION. The Guide is to turn to the new course. Single ship units are to alter course and speed individually; remaining units are to proceed by order of their unit commanders. All units regain: 1. Their previous relative bearings and distances from the Guide on the new course, if the axis is rotated the same number of degrees in the same direction (CORPEN G). 2. Their stations relative to the new formation axis on the new course, if the axis is rotated to the same true direction (CORPEN H). Alteration of course and axis simultaneously is not to exceed 60° in one step. Simultaneous alteration of course and formation axis should not be carried out at night or in low visibility.
CORPENI	
CORPEN J	ALTER COURSE to (at). Units are to maintain relative bearings and distances from the Guide. At the time ordered, the Guide is to turn to the new course; remaining units are to regain their relative bearings and distances from the Guide. Single ship units are to proceed independently; remaining units

ships are not in a circular formation.

by order of their unit commanders. This method may be used when

MTP 1(D), Vol. II

CORPEN K	. ALTER COURSE. The Guide is to alter course to (at) (on arrival in position). Remaining units are to conform.
	Units with stations on the Guide's line of advance, either ahead or astern, are to alter course on passing through the position where the Guide alters course. Units not on the Guide's line of advance, on arrival abeam of the point where the Guide alters course, are to proceed to their stations relative to the new course. Single ship units are to proceed independently, remaining units by order of their unit commanders. This method is not to be used when in a circular formation. If evasive steering is being carried out, the OTC should order the formation to stop evasive steering and resume the base course before the most advanced unit is due to alter course.
CORPEN L [PO	DRT or STBD] ALTER COURSE in the direction indicated to in accordance with Standard Track Turn Method number (from ATP 24 preceded by DESIG).
CORPEN M .	. COURSE AND SPEED through the WATER (CSW). Make course (and speed) good through the water.
CORPEN N .	. REPLENISHMENT UNITS alter course when ordered by their control ship(s) to degrees PORT/STBD as indicated in steps. Use ANSWER for 5° steps, ONE for 10° steps, ONE ANSWER for 15° steps, or TWO for 20° steps.
	Ships not in replenishment units are to preserve true bearings and distances from the formation guide. Ships in replenishment units alter course as directed by their control ship(s) so as to preserve relative bearings and distances from their replenishment unit guide. Replenishment unit guide will not change during the course alteration(s).
Example:	CORPENN 230 PORT ANSWER Alter course to PORT to a course of 230° in 5° steps

Procedure

WHEN ORDERED OR REQUIRED TO ALTER COURSE, THE CONTROL SHIP EXECUTES THE ALTERATION USING THE FOLLOWING PROCEDURE.

- 1. The control ship orders a CORPEN N to the replenishment unit, as described above.
- 2. On receipt of the signal CORPEN N, ships replenishing alongside and/or astern report BF to the control ship when ready to commence the alteration. (BF is also required from the replenishment unit guide if he is not the control ship.) When the ships replenishing have reported READY, the control ship will alter the course of its replenishment unit by using Method A, B, or C, as in the example following.
- 3. Ships in waiting/lifeguard station will not report BF but will follow in order to preserve relative bearings and distances from the replenishment unit guide.
- 4. As applicable, on reaching the new course the control ship reports completion of alteration to the OTC.

EXAMPLES FOR SIGNAL CORPEN N

Method ALFA (Bridge	e-Bridge Telephone) or Method	BRAVO (Voice Radio)	
Control Ship(s)	Ships Replenishing	Replenishment Unit Guide(s)	
Immediate Execute CORPEN STBD/PORT ANS/1/1 ANS/2, I Say Again			
Standby, Execute, Over	Roger, Out	Roger, Out Sound appropriate turning blast(s)	
	BF	BF (When not control ship)	
Immediate Execute CORPEN STBD/PORT ANS/1/1 ANS/2 I Say Again			
Standby, Execute, Over	Roger, Out	Roger, Out Sound appropriate turning blast(s)	
	BF	BF (When not control ship)	
Met	hod CHARLIE (V/S — Flags by I	Day)	
CORPEN STBD/PORT ANS/1/1 ANS/2 Close Up	ANS Close Up (when ready)	ANS Close up (when ready)	
CORPEN STBD/PORT ANS/1/1 ANS/2 Dipped (Executive Signal)	ANS Dipped	ANS Dipped Sound appropriate turning blast(s)	
CORPEN STBD/PORT ANS/1/1 ANS/2 Close Up	ANS Close Up (when ready)	ANS Close Up (when ready)	
CORPEN STBD/PORT ANS/1/1 ANS/2 Hauled Down (Executive Signal for Final Al- teration)	ANS Hauled Down	ANS Hauled Down Sound appropriate turning blast(s)	
Method CHARLIE (V/S — Light by Night)			
IX BT CORPEN STBD/PORT ANS/1/1 ANS/2			
BT IX IX 5 second dash	IX IX 5 second dash	IX IX 5 second dash Sound appropriate turning blast(s)	
	BF	BF	
IX BT CORPEN STBD/PORT ANS/1/1 ANS/2 IMI			
BT IX IX 5 second dash	IX IX 5 second dash	IX IX 5 second dash Sound appropriate turning blast(s)	
	BF	BF	

CORPEN O	DELAY EXECUTION OF WHEEL ordered by higher authority and execute on my executive signal.
CORPEN P	GUIDE steer course
CORPEN Q	DISPOSITION COURSE. Disposition is to steer course
CORPEN R	
CORPEN S	SEARCH TURN. Alter the direction of the search to course (at
CORPEN T	
CORPEN U	MAINTAIN PRESENT COURSE (or course) (until).
CORPEN V	ALTER COURSE by wheeling to (at) without further signal and resume zigzag. The base course is automatically changed to the new course. Screen units stationed by the skeleton screen method maintain their relative bearings and distances from the main body or convoy. The main body is to wheel to the course ordered at the time ordered. If zigzagging, all ships are to turn together to the original base course 5 minutes before the time of alteration, and the same zigzag is to be resumed 10 minutes after the time of execution of the signal.
CORPEN W	
CORPEN X	ALTER course to (at). Screen units stationed by the sector method continue to patrol their sectors. Screen units stationed by the skeleton screen method maintain their relative bearings and distances from the main body or convoy.
CORPEN Y	
CORPEN Z	

MTP 1(D), Vol. II

703 INFORMATION SIGNALS

A CORPEN Force ASMD COURSE is
B CORPEN BASE COURSE is
C CORPEN
D CORPEN AIRCRAFT. Estimated course for out-of-wind operation of fixed-wing aircraft is (speed).
E CORPEN SAFETY COURSE is
F CORPEN AIRCRAFT. Estimated flight operations course for impending aircraft operation is (speed).
G CORPEN GUIDE'S COURSE is (or is altering to) (Guide's speed is).
H CORPEN INTEND ALTERING COURSE to (at).
I CORPEN
J CORPEN BASE COURSE will be (when the Guide passes the point indicated).
K CORPEN COURSE is
L CORPEN TRACK COURSE is
M CORPEN MY (or unit indicated) COURSE is (my speed is).

N CORPEN
O CORPEN
P CORPEN I AM ADJUSTING MY COURSE to (speed to).
Q CORPEN
R CORPEN REPLENISHMENT COURSE is (speed is).
S CORPEN
T CORPEN THROW OFF COURSE is
U CORPEN
V CORPEN
W CORPEN MANEUVER ordered to be carried out at is to be executed at that time without further signaling. Unit commanders are to issue necessary instructions in advance.
X CORPEN [PORT or STBD] I AM ABOUT TO ALTER COURSE to PORT or STBD as indicated (tens of degrees) (or to course). Note: If course change does not occur, signal must be negated.
Y CORPEN
Z CORPEN CONVOY COURSE is (speed).

MTP 1(D), Vol. II

CHAPTER 8

SPEED

		800 801 802	Action Signals Information Signals Speed Flag Indicators
800 ACTION SIGNALS			
INT SPEED WHAT is your speed?			
SPEED GUIDE PROCEED at tain station.	speed; othe	er ships proc	eed as necessary to main-
SPEED 0 GUIDE is to STOP eng tion.	jines; other ships	proceed as	necessary to maintain sta-
SPEED A STOP ship by REVER	SING engines.		
SPEED B PROCEED at BEST S speed in the current ci the commanding office	rcumstances or c	onditions. (S	eed at the highest suitable peed is at the discretion of
SPEED C CAVITATION speed. 1. Above 2. Below	Proceed at	cavitation sp	peed.
SPEED D DECREASE speed by	/ knots.		
First gro	out speed chang l groups separated l up Low speed rroup High speed	by TACK indica	
SPEED F SPEED CHANGES. O and optimum sonar sp		t speed cha	nges between knots

MTP 1(D), Vol. II

SPEED G	GUIDE proceed at speed upon passing point indicated.
SPEED H	PROCEED at speed
SPEEDI	INCREASE speed by knots.
SPEED J	
SPEED K	FLAGS. Show speed flags.
SPEED L	REPLENISHMENT UNITS alter speed when ordered by control ships to knots in steps. Use ANSWER for 0.5-knot steps or ONE for 1-knot steps, etc.

Ships not in replenishment units are to alter speed similarly, preserving true bearings and distances from the formation guide. Ships in replenishment unit(s) preserve relative bearings and distances from unit guide.

Procedure

When ordered or required to alter speed, the control ship executes the alteration using the following procedure:

- 1. The control ship orders a speed L to the replenishment unit, as described above.
- 2. On receipt of the signal speed L, ships replenishing alongside and/or astern report BF to the control ship when ready to commence the alteration. (BF is also required from the replenishment unit guide if he is not the control ship.) When the ships replenishing have reported ready, the control ship will alter speed of its replenishment unit by using method A, B, or C, as in the example following.
- 3. Ships in waiting/lifeguard station will not report BF but will follow in order to preserve relative bearings and distances from the replenishment unit guide.
- 4. As applicable, on reaching the new speed the control ship reports completion of the alteration to the OTC.

EXA	MPLE FOR THE EXECUTIVE SIGN.	AL SPEED L
Method Alfa	a (Telephone/Loudhailer) or Method I	Bravo (Voice/Radio)
Control Ship	Ships Replenishing	Guide of Replenishment Unit
Immediate Execute Speed 15, I say again Speed 15, Stand by Execute, Over	Roger out	Roger out
	BF	BF (When not control ship)
Immediate Execute Speed 16, I say again Speed 16, Stand by Execute, Over	Roger out	Roger out
	BF	BF (When not control ship)
	Method Charlie (V/S — Flags by	Day)
Speed INDIA/DELTA ANS/1 Close up	ANS Close up (When ready)	ANS Close up (When ready)
Speed INDIA/DELTA ANS/1 Dipped (Executive signal)	ANS Dipped	ANS Dipped (Increase or decrease speed 1/2 or 1 knot)
Speed INDIA/DELTA ANS/1 Close up	ANS Close up (When ready)	ANS Close up (When ready)
Speed INDIA/DELTA ANS/1 Hauled down (Executive signal for final speed alteration)	ANS Hauled down	ANS Hauled down (Final increase or decrease of speed 1/2 or 1 knot)
	Method Charlie (V/S — Light by N	Night)
IX BT SPEED 15 IMI SPEED 15, IXIX followed by 5 seconds dash	IXIX followed by 5 seconds dash	IXIX followed by 5 seconds dash
	BF	BF
IX BT SPEED 16 IMI SPEED 16, IXIX followed by 5 seconds dash	IXIX followed by 5 seconds dash	IXIX followed by 5 seconds dash
	BF	BF

SPEED M MAXIMUM speed. Proceed at maximum speed (or). 1. With present engineering configuration.
SPEED N NORMAL speed. Proceed at normal speed (or). 1. One-third normal speed 2. Two-thirds normal speed
SPEED O ECONOMICAL speed. Proceed at economical speed for your unit.
SPEED P SONAR speed. Proceed at sonar speed. 1. Maximum 2. Optimum
SPEED Q DISPOSITION speed. Disposition is to proceed at speed
SPEED R REDUCE speed (to knots). 1. To avoid damage 2. To stream/recover astern fueling rig
SPEED S STOP ENGINES.
SPEED T MASKING. Use turn count masking or differentiate propeller revolutions.
SPEED U SAFE speed. Follow at safe speed.
SPEED V STEERAGEWAY speed. Proceed at steerageway speed.
SPEED W STATIONING speed. Proceed at stationing speed.
SPEED X OPERATIONAL speed. Proceed at operational speed.
SPEED Y STREAMING speed. Proceed at streaming speed and stream sweep required (or equipment taken from Table Y).
SPEED 7

801 INFORMATION SIGNALS

A SPEED	SCREEN speed is Two numeral groups separated by TACK indicate: First group Lower limits of speeds to be used Second group Upper limits of speeds to be used
B SPEED	BASE speed is
C SPEED	MAXIMUM speed (or) which can be maintained by this unit or unit indicated is 1. Without cavitation
D SPEED	CHANGING speed. I am speed (to knots). 1. Decreasing 2. Increasing
E SPEED	ENEMY speed is Two numeral groups separated by TACK indicate limits between which enemy is expected to proceed.
F SPEED	LAUNCHING or RECOVERY speed. Speed for impending launching or recovery of aircraft is $___$.
G SPEED	GUIDE'S speed is
H SPEED	MY ENGINES are turning (List A) at ((List B)). List A 1. Ahead 2. Astern B. Half power C. Quarter power
I SPEED	OPERATIONAL speed will be required at
J SPEED	FUEL at present speed (or) will last hours.
K SPEED	ZIGZAG speed is Two numeral groups separated by TACK indicate: First group Low speed Second group High speed
L SPEED	LOGSPEED. My (or unit indicated) LOGSPEED is

M SPEED	MY (or unit indicated) speed is
N SPEED	NORMAL speed is
O SPEED	SEARCH speed is Two numeral groups separated by TACK indicate: First group Speed down the convoy Second group Speed up the convoy
P SPEED	$ \begin{array}{c c} \text{SONAR speed. My} & \underline{\qquad} & (\textit{List A}) \ (& \underline{\qquad} \) \ (\textit{List B}) \ \text{sonar speed is} \ \underline{\qquad} \ . \\ & \textit{List B} \\ \text{1. Maximum} & \text{A. Active (hull-mounted)} \\ \text{2. Optimum} & \text{B. Active (towed)} \\ \text{C. Passive (hull-mounted)} \\ \text{D. Passive (towed)} \\ \end{array} $
Q SPEED	SAFE MCM speed. Safe minimum (or) speed over the ground is 1. Maximum
R SPEED	REPLENISHMENT speed is
S SPEED	STATIONING speed is
T SPEED	MAXIMUM speed of can be maintained on present course (or on course) without risk of damage.
U SPEED	Speeds in excess of will not be required during the night (or until time indicated).
V SPEED	MAXIMUM (or) speed of this or indicated ship is 1. Economical
W SPEED	Speed which can be maintained with present engineering configuration is 1. Maximum 2. Minimum
X SPEED	OPERATIONAL speed is
Y SPEED	STREAMING (or) speed is 1. Recovering 2. Sweeping 3. Turning
Z SPEED	CONVOY speed is .

802 SPEED FLAG INDICATORS

Flag	Indication	Normally Displayed	Meaning
0			Ship is stopped.
01, 02, etc., to 09	SHIP SPEED IN KNOTS	AT DIP, on signal hal- yard	Ship is proceeding at 1, 2, etc., to 9 knots as indicated.
10, 11, etc.			Ship is proceeding at 10, 11, etc. knots.

Note

Speed at which the ship is proceeding may also be indicated by small numeral flags displayed from the navigation bridge. In this case speeds from 1 to 9 knots may be indicated by single flags.

MTP 1(D), Vol. II

INTENTIONALLY BLANK

MTP 1(D), Vol. II

CHAPTER 9

SCREEN

900 Instructions
901 Action Signals
902 Information Signals

900 INSTRUCTIONS

- a. SCREEN CENTER. The point on which screen units are stationed, normally QQ or ZZ, unless otherwise signaled.
 - b. TYPES OF SCREEN.
 - 1. Sector screen.
 - 2. Skeleton screen.
 - 3. Grid departure/entry screen.
 - 4. Helicopter windline screen.
 - 5. Screen for damaged ships.
- c. HELICOPTERS IN THE SCREEN. When sectors, stations, or patrol lines are assigned to unspecified helicopters, DESIG H shall be signaled in place of the call sign.

MTP 1(D), Vol. II

901 ACTION SIGNALS

SCREEN A RESUME PREVIOUS SECTOR.
SCREEN B
SCREEN C
SCREEN D FORM DEPARTURE SCREEN (at). 1. SECTOR. Screen center is at bearing from harbor reference point indicated following DESIG, distance miles. 2. GRID. Grid reference position is prominent landmark or geographic position indicated following DESIG and is in grid quadrant at grid position Harbor reference point indicated following DESIG is at grid position Grid position is signaled by two groups of three numerals each separated by TACK.
Examples: SCREEN D1–260 DESIG X 2–18 ANS Form sector screen at 1830. Screen center is at 260° from point X, distance 2 miles. SCREEN D2 DESIG Lighthouse WHITE 200–200 DESIG X 202–215 Form grid departure screen. Grid reference position is lighthouse at WHITE 200 TACK 200. Point X is at 202 TACK 215.
SCREEN E . FORM ENTRY SCREEN (at). 1. SECTOR. Screen center is at bearing from harbor reference point indicated following DESIG, distance miles. 2. GRID. Grid reference position is prominent landmark or geographic position indicated following DESIG and is in grid quadrant at grid position Harbor reference point indicated following DESIG is at grid position Grid position is signaled by two groups of three numerals each separated by TACK.
SCREEN F

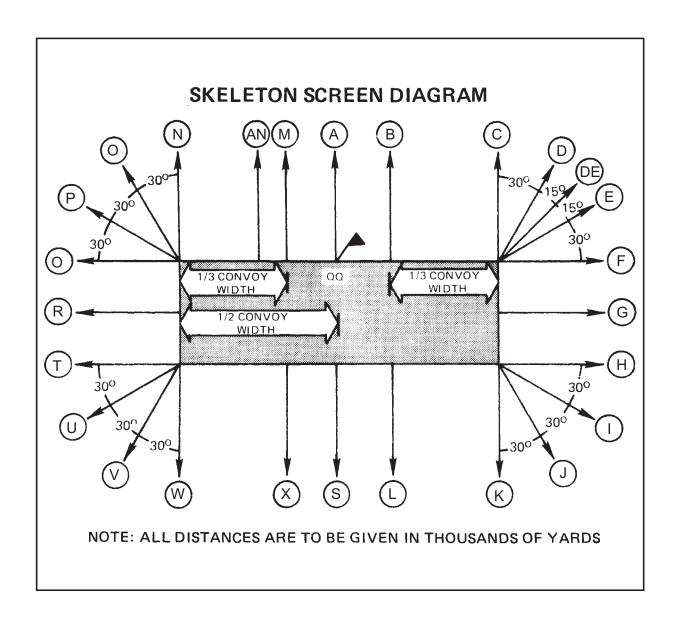
SCREEN G. . . FORM SKELETON SCREEN using skeleton screen diagram. Ship or helicopter indicated take station or patrol line indicated.

STATIONS — A station is assigned by signaling one or two letters from the diagram, followed by a numeral to indicate the nearest distance from the convoy in thousands of yards. The use of two letters to allocate a station indicates a middle line between two single letters from the diagram.

PATROL LINES A patrol line is assigned by signaling two stations from the diagram as above.

Examples: SCREEN G–DE7 ANS c/s 6PG..... Form skeleton screen using skeleton screen diagram. Ship whose call sign is 6PG take station 45° on starboard bow of convoy at 7,500 yards.

SCREEN G-D4E4 c/s 4RT.... Form skeleton screen using skeleton screen diagram. Helicopter whose call sign is 4RT patrol line between 30° and 60° on starboard bow of convoy at 4,000 yards.



SCREEN H .	. FORM SCREEN (screen center) (base course) (base speed). 1. Sector 2. Skeleton 3. Helicopter windline 4. Integrated
SCREENI	. SCREEN THIS UNIT or unit indicated (against attack). Type of attacking unit may be indicated from Table F or V. 1. Aircraft 2. Missile 3. Submarine 4. Surface vessel 5. Torpedo
SCREEN J	. ADJUST STATION 1. To admit unit indicated 2. To close the gap in the screen
SCREEN K .	. FORM SECTOR SCREEN. Screen center is Ship or helicopter indicated take sector indicated. BOUNDARIES — Sector boundaries are ordered by a group of four numerals. First two numerals indicate true bearing of left and second two numerals indicate true bearing of right boundary of the sector in tens of degrees. ANSWER may be used to indicate an increment of 5 degrees. DEPTH — Sector depth is ordered by a group of four numerals. First two numerals indicate the inner and the second two numerals indicate the outer limits of the sector in thousands of yards from screen center. ANSWER may be used to indicate increments of 500 yards.
Example:	SCREEN K-QQ-20 ANS 33 ANS – 02 ANS 07 DESIG H Form sector screen. Screen center is the center of the front of the main body. Helicopter take sector between 205° and 335° true and between 2,500 and 7,000 yards from screen center.
SCREENI	TAKE SCREEN STATION while this unit or unit indicated is absent

SCREEN M TAKE STATION within your sector as indicated: 1. Center of sector 2. Bearing range from the Guide 3. Clockwise half of sector 4. Counterclockwise half of sector 5. Outer half of sector 6. Inner half of sector
SCREEN N SCREEN AHEAD of main body or convoy or unit indicated (on MLA).
SCREEN O TAKE SCREEN SECTOR, AREA, STATION, or PATROL LINE indicated.
Examples: SCREEN O – 0307 – 0515 c/s 3TP Ship whose call sign is 3TP take screen sector between 030° and 070° true and between 5,000 and 15,000 yards from screen center.
SCREEN O DESIG BLUE – 012 – 096 – 53 c/s 3TP Ship whose call sign is 3TP take screen area with southwest corner in grid position BLUE 012 – 096, size 5 miles easting, 3 miles northing.
SCREEN O – A4 c/s 3TP Ship whose call sign is 3TP take station 4,000 yards ahead of the center of the front of the convoy.
SCREEN O – D4E4 c/s 3TP Ship whose call sign is 3TP take patrol line between 30° and 60° on starboard bow of convoy at 4,000 yards.
SCREEN P SHIFT(List A) BOUNDARIES of sector assigned, tens of degrees,(List B). RESTRICTION: Shifting of sector boundaries is not to exceed 90 degrees in one step when both boundaries are changed. List A List B 1. Left A. Clockwise 2. Right B. Counterclockwise 3. Both
Examples: $SCREEN P3 - 3A \dots$ Shift both boundaries of sector assigned 30° clockwise. $SCREEN P1 - 2B \dots$ Shift left boundary of sector assigned 20° counterclockwise.
SCREEN Q CHANGE (List A) LIMITS of sector assigned (List B) screen center thousand yards. RESTRICTION: Changes in sector limits are to be at least 1,000 yards. List A
Example: $SCREENQ1-B2$ Change inner limit of sector assigned towards screen center 2,000 yards.

SCREEN R FORM PRE-ORDERED SCREEN. Form pre-ordered screen number/code- word
SCREEN S SCREENING HELICOPTERS are to 1. Proceed directly to new station 2. Remain in present station until ordered to a new station
SCREEN T PICKETS () are to be stationed on bearing from screen center or unit indicated distance miles. Number of pickets may be indicated by numeral following DESIG. 1. AAW 2. ASW 3. SW
SCREEN U CEASE PATROLLING.
SCREEN V RESUME PATROLLING.
SCREEN W BULGE THE SCREEN.
SCREEN X REFORM THE PRESENT TYPE OF SCREEN in sector indicated. Example: $SCREEN X - 0310 - 0515 \dots$ Reform the present type of screen between 030° and 100° true at a distance between 5,000 and 15,000 yards from screen center.
SCREEN Y
SCREEN Z PATROL YOUR STATIONS.

902 INFORMATION SIGNALS

A SCREEN	
B SCREEN	SCREENED SECTOR. Main body or convoy or unit indicated is screened in sector indicated (on MLA).
C SCREEN	
D SCREEN	DEPARTURE SCREEN is the screen formed.
E SCREEN	ENTRY SCREEN is the screen formed.
F SCREEN	
G SCREEN	
H SCREEN	SCREEN FORMED is screen. 1. Sector 2. Skeleton 3. Helicopter windline 4. Integrated
I SCREEN	SCREENED UNIT. This unit or unit indicated is screened (against attack). Type of attacking unit may be indicated from Table F or V. 1. Aircraft 2. Missile 3. Submarine 4. Surface vessel 5. Torpedo
J SCREEN	SEQUENCE OF SCREEN UNITS clockwise from MLA is as indicated.
K SCREEN	SECTOR SCREEN is formed. Screen center is Ship or helicopter indicated is in sector indicated.
L SCREEN	SCREEN CENTER is 1. ZZ 2. QQ 3. Unit indicated 4. Harbor reference point indicated following DESIG 5. Bearing from harbor reference point indicated following DESIG, distance miles 6. Grid position indicated following DESIG 7. Geographic position indicated following DESIG 8. Bearing from center of the force or unit indicated, range hundred yards

M SCREEN	SCREEN UNITS. The number of ships assigned to the screen is and the number of helicopters (suffixed by H) is
N SCREEN	SCREEN STATIONS. The number of assigned screen sectors, stations, or patrol lines is
O SCREEN	
P SCREEN	
Q SCREEN	
R SCREEN	
S SCREEN	
T SCREEN	PICKETS () are stationed on bearing from screen center or unit indicated distance miles. Number of pickets may be indicated by numeral following DESIG. 1. AAW 2. ASW 3. SW
U SCREEN	
V SCREEN	
W SCREEN	SCREEN IS BULGED
X SCREEN	
Y SCREEN	
Z SCREEN	

CHAPTER 10

ANTIAIR WARFARE

1000 AAW Signals1001 AAW ACTION TABLE

AA1	. ENGAG	SING. I am engaging (with) (DESIG followed	d by track identity).
		Fighter-launched weapons		, ,,
	2.	Long-range SAMs		
	3.	Medium-range SAMs		
	4.	Short-range SAMs		
	5	Gune		

5. Guns6. Jammers

1000 AAW SIGNALS

AA2 FRIENDLY AIRCRAFT detected bearing ____ (distance ____ miles).

AA3 IDENTIFICATION SAFETY RANGE (ISR) is standard (or ____ miles).

AA4 SAFETY SECTOR. Safety sector(s) for friendly aircraft is (are) as indicated:

(a) Number designator

(b) Origin

(c) Limiting range in miles

(d) Center bearing

(d) Width of sector in miles (2 digits) or degrees (3 digits)

(f) Limiting altitude

(g) Time

Example: AA4—1 DESIG ZZ—60—120—020—50—20T08... Safety sector for friendly aircraft is number 1, origin in the center of the force, limiting range 60 miles, center bearing 120°, width 20°, limiting altitude 5,000 feet, and is activated from 0800 to 2000.

1. Air-launched missiles 2. ASM-carrying aircraft 3. Free-fall bombs 4. Missile-armed FPBs 5. Nuclear 6. Non-nuclear 7. Reconnaissance aircraft 8. Rocket-firing aircraft 9. Ship-launched missiles 10. Submarine-launched missiles 11. Torpedo bombers	
AA6 THREAT SECTOR. Threat is () from sector 1. High 2. Medium 3. Low 4. Very low	
Example: $AA6-1-2529$ Threat is high from sector between 250° and 290° true.	e.
AA7 WEAPON COORDINATION method in force is coordination. 1. Area 2. Zone	
AA8	
AA9	
ΔΔ10	

1001 AAW ACTION TABLE

The numerical flag indicator for the table (flag 7) may be left flying in a superior position when successive signals from the same table are being made.

7A			
7B			
7C CEAS	SE fire.		
7D			
	 Right-hand missile/aii Track number followii 	rt rraft 19 rcraft ng DESIG	List B A. Fighter-launched weapons B. Long-range SAMs C. Medium-range SAMS D. Short-range SAMS
-	PONS FREE (on/in _ 1. Bearing 2. Sector 3. Track number or posi 4. Until time).	rayt wan meanant range siini
7G			
7H HOLI	D FIRE (on/in). 1. Bearing 2. Sector 3. Track number or posi 4. Until time		
71			

7J
7K
7L FIRE CHAFF (as indicated) (bearing) (range). 1. ALFA (air-dispensed) 2. BRAVO (barrier 3. CHARLIE (confusion) 4. DELTA (distraction) 5. FOXTROT (funnel-dispensed) 6. HOTEL (helicopter-dispensed) 7. SIERRA (seduction) 8. As previously directed
7M
7N DECOYS. Release/fire decoys (List A) ((List B)). List A 1. Infrared 2. Radar A. Bearing (range thousand yards) B. In accordance with plan previously ordered
70 OPEN FIRE (on bearing or in sector).
7P
7Q
7R
7S MISSILE/AIRCRAFT SPLASHED (SHOT DOWN).
7T WEAPONS TIGHT (on/in). 1. Bearing 2. Sector 3. Track number or position 4. Until time
7U
7V
7W
7X
7Y
7Z

CHAPTER 11

ADMINISTRATION

Boats

1100

		110 110 110		lical cellaneous ers/Publications
1100 BOATS				
AD1	ASSIST BOAT apparently in trouble erence point indicated (range h	on bearing nundred yards	from thi	s ship, or unit or ref-
AD2	CAPSIZED. Boat capsized or in dange erence point indicated (range h	er bearing nundred yards	from thi	s ship, or unit or ref-
AD3				
AD4	BOAT(S)(List A) is (are) to be List A 1. All boats 2. All power boats 3. All pulling boats 4. All sailing boats 5boat(s) indicated by DESIG following signal	List B) List B A. Turned out B. Lowered to C. Slipped). the waterlin	e
AD5	SEND(List A) (for(List B) order of call signs). List A 1. Admin boat 2. Admiral's barge 3. Armed boat 4. Captain's boat 5. Commodore's boat 6. Diving boat 7. Guard boat 8. Helicopter 9. Hospital boat 10. Liberty launch 11. Motor boat 12. Vehicle	List B A. Admiral B. Commandi C. Commodor D. Liberty part E. Mail F. Mail (Class G. Main (Offic H. Mail (Regis I. Material rec J. Men K. Movies L. Officers M. Shore patr N. Stores	ng officer re/senior offic ty ified) er Courier) stered) quested	

AD6 .		SUSPEND all boating (or hoist all). 1. Boats 2. Boats hoisted by cranes or booms 3. Power boats 4. Small boats
AD7 .		
AD8 .		
1101	CERE	MONIAL
AD9 .		CALLS. Routine (or) calls of flag and commanding officers may be dispensed with (considered paid and returned). 1. Official
AD10		CEREMONY ceremonially. 1. Anchor 2. Cheer ship 3. Fire a salute (number of guns following DESIG) 4. Illuminate ship 5. Man ship 6. Parade band 7. Parade band for entering (leaving) harbor 8. Parade guard 9. Parade guard and band 10. Parade guard and band for entering (leaving) harbor 11. Parade guard for entering (leaving) harbor 12. Proper marks of respect to be paid.
AD11		COLORS colors (at). 1. Clear 2. Dip 3. Half mast 4. Haul down 5. Haul down Jack (or do not hoist) 6. Hoist 7. Hoist Jack 8. Rehoist 9. Shift ensign to harbor position 10. Shift ensign to sea position
AD12		COLOURS. Size of colours (or (List A)) is to be (List B). List A 1. Admiral's flags 2. Ensign 3. Jack 4. Masthead flags 5. Masthead pennant E. Storm F. Size (number)
AD13		DRESS SHIP. Full dress ship (or). 1. Dress ships with ensigns at the masthead. 2. Haul taut dressing lines.
AD14		
AD15		
ΔD16		

1102 MEDICAL

AD17	CASUALTY. Dispatching casualty to injury (List B)). List A 1. No injury 2. Cranial/neck 3. Thoracic nonpenetrating 4. Thoracic penetrating 5. Abdominal 6. Pelvic 7. Soft tissue wounds 8. Fracture, simple (closed) 9. Fracture, compound (open) 10. Electrical shock 11. Burns (type preceded by DESIG	List B A. Critical B. Serious C. Stretcher D. Ambulatory E. Neuropsychiatric	(<i>List A</i>)) (degree of
AD18	MEDICAL OFFICER. Send medica	l officer as soon as pos	ssible (or at) (to
AD19			
AD20			
1103 MIS	SCELLANEOUS		
AD21			
AD22	AWNINGS. Spread all awnings (or "Furl awnings or do not spread awr 1. Forecastle 2. Waist 3. Quarterdeck 4. Side screen		
AD23	LEAVE and LIBERTY. Usual leave	and liberty may be gra	nted (or from to
AD24	MEALBREAK (while flying). Flag ar next meal.	nd commanding officers	s will have time for the
AD25	NAME. Name of (from Table	P) is	
AD26	REFUSE DISPOSAL. Disposal of r 1. Dispose of refuse during hours of the control of the	of darkness. Into harbor. Into harbor. Into harbor. Into harbor. Into harbor (or convoy).	ion (or).

AD27	RECALL PERSONNEL (List A) 1. All 2. Beach guard 3. Beach liaison officer 4. Motor pool 5. Naval 6. Officers 7. Other (from Table P).	due to (List B). List B A. Civil disturbance/disaster B. Emergency sortie C. Heavy weather D. Other (preceded by DESIG)
AD28	SPLICE THE MAINBRACE.	
	UNIFORM is (List A) (for (bers may be used instead of the sufficient List A 1. Battle 2. Blue 3. Dungarees 4. Khaki 5. Mess 6. Overcoats 7. Raincoats 8. White	List B)). DESIG with national uniform num- ixes. List B A. Dress B. Inspection C. Shore leave and liberty D. Undress E. Uniform of the day F. Working
AD30		
1104 ORDER	S/PUBLICATIONS	
AD31		
AD32	ATTENTION is called to (Para 1. Publication (title). 2. Plan (title). 3. OPORDER (title). 4. Message (DTG).	agraph number may be added.)
	indicated) are being distributed. Repo dicated (or). 1. Receipts will be called for by radio 2. Receipts will be called for by V/S a Example: AD33-1-18 DESIG BN135	or hand messages (lettered or numbered as rt by signal if not received by time or date inat at t Envelopes lettered BN135 are being dis- l be called for by ratio at 1800.
	RECEIVED. Orders, envelopes, or ha cated) have been received.	nd messages (lettered or numbered as indi-
AD35		
AD36		
AD37		

MTP 1(D), Vol. II

1105 REPORT

AD38 ABSENTEES. Number of absentees is ____ (at ____).

AD39 MAKE ____ REPORT.

1. SITREP
2. Progress of berthing/anchoring
3. Progress of replenishment
4. Progress of exercise/event presently being carried out
5. Type from appropriate supplementary table or in plain language following DESIG.

AD40 REPORT ON BOARD. Officer (from Table P) or his representative is requested to report on board this ship or unit indicated.

AD41 REPORTING FOR DUTY.

AD42

MTP 1(D), Vol. II

INTENTIONALLY BLANK

MTP 1(D), Vol. II

CHAPTER 12

AMPHIBIOUS

1200 Beaches1201 Signals

1200 BEACHES

Unless otherwise indicated, beaches referred to in the following signals are identified by numeral(s) from the BEACH TABLE (Table Z).

1201 SIGNALS

AM1	BEACH. Landing beach is be	each.
AM2	COMMENCE at () beac 1. General unloading 2. Re-embarkation 3. Selective unloading 4. Selective re-embarkation	ch (of unit following DESIG).
AM3	CONDITIONS for beaching are su 1. Deteriorating 2. Hazardous 3. Hazardous due to weather or sea conditions 4. Hazardous due to proximity of enemy conventional forces	itable (or). 5. Hazardous due to biological agents 6. Hazardous due to chemical agents 7. Hazardous due to radioactivity

	SEWAYS (at beach) (number of sections/boats may be indicated umeral(s) following DESIG). 1. Beach causeways 2. Break marriage from causeways 3. Conduct barge ferry operations 4. Embark causeways 5. Emplace causeways 6. Marriage to causeways 7. Proceed to causeways 8. Re-embark causeways 9. Retract causeways 10. Splash causeways 11. Dispatch causeway tender boat to this unit or unit indicated 12. Launch/recover causeway tender boat 13. Causeway tender boat required by this unit or unit indicated
AM5SOU	NDING indicates depth of water at is feet. 1. Bow 2. Amidships 3. Stern
AM6 HOIS	ST/RECOVER all landing craft () (at time). 1. Except LCAC 2. Except ACV 3. Except DUKW 4. Except LARC 5. Except LCM 6. Except LCPL 7. Except LCU 8. Except LCVP 9. Except LVT
AM7 HOU	R indicated by letter(s) following DESIG is 1. Confirmed 2. Able to be met on schedule (or at) 3. At time indicated 4. Delayed by hours 5. Advanced by hours 6. Delayed by minutes 7. Advanced by minutes
AM8	

AM9 LANE	O the () landing force. 1. Airborne 2. Heloborne 3. Waterborne	
AM10 LANE	DING SUCCESSFUL.	
AM11 OPE	 Fire support (FSA number may be Helicopter transport Landing ship 	e added following DESIG) ter/number may be added following DESIG)
AM12 OPE	RATIONS. Facilitate landing ope 1. Moving in to thousand yards 2. Taking station bearing from o	erations by off () beach. enter of () beach distance miles.
AM13 RE-E <i>B</i>).	List A 1. Heavily 2. Lightly 3. Moderately	(List A) contaminated by agent (List List B A. Biological B. Blister C. Nerve D. Radioactive E. Unidentified
AM14 REIN	FORCEMENTS needed at () beach.
AM15 SCHI	EDULE. Landing schedule is 1. Advanced 2. Retarded	(number of minutes).

AM16	TRANSFERS. Pre-H-Hour (or hour following DESIG) transfers are 1. Completed (except serial) 2. Dispatched (except serial) 3. Received (except serial) 4. Delayed by hours 5. Advanced by hours 6. Delayed by minutes 7. Advanced by minutes
AM17	CONDUCT EVACUATION OF 1. Civilian personnel 2. Landing force 3. Military personnel 4. Other following DESIG
AM18	WITHDRAW () (or unit indicated). 1. Control groups 2. Fire support groups 3. Landing force 4. Transports
AM19	WITHDRAWAL. Cover withdrawal (by) (or unit indicated). 1. Aircraft 2. Close support fire 3. Counter battery fire 4. Rocket fire 5. Smoke
AM20	SURFACE WAVE (Wave number) is (from List A) at (from List B) on beach (from Table Z). List A List B 1. On time A. Line of departure (LOD) 2. Late (number of minutes following DESIG) 3. Early (number of minutes following DESIG)

CHAPTER 13

ANTISUBMARINE WARFARE

1300	Attack
1301	Command
1302	Conditions
1303	Contact
1304	Countermeasures
1305	Equipment
1306	Exercise
1307	Intelligence
1308	Search
1309	ASW Searches
1310	Defense in Harbor
1311	ASW ACTION TABLE

1300 ATTACK

AS5

AS1 ATTACK. Make attack (with ASW weapon from Table A). 1. Deliberate 2. Urgent 3. Vector aircraft
AS2 ATTACK METHOD. Use attack method* indicated following DESIG. *The suffix H to the attack method designator indicates that helicopters are taking part. NOT RELEASABLE
14AS CORDON (sector assignments followed by call signs) (radius of attack zone if different from 3,000 yards)
Example: AS2 DESIG 14AS Use attack method 14AS (CORDON).
AS3 HOLD DOWN enemy submarine(s) following this force.
AS4 NUCLEAR ATTACK. Stand by for nuclear depth charge or bomb attack in minutes (detonation expected bearing from this unit or unit indicated, range thousand yards).

AS6	1. Known sunk 2. Known damaged 3. Negative 4. Nonsubmarine 5. No damage 6. Oil 7. Possible damaged 8. Probable nonsubmarine 9. Underwater explosion 10. Unknown 11. Wreckage
AS7	TORPEDO DEPTH. Set torpedoes to (feet) floor, (feet) ceiling, (feet) initial search depth.
AS8	WEAPON DEPTH. Set (ASW weapon from Table A) to a depth of feet.
AS9	WEAPONS TIGHT. ASW weapons are tight in all sectors (or) (ASW weapon from Table A). 1. Between bearings and from formation center 2. In sector(s) indicated
AS10	WEAPON SAFETY RANGE. ASW weapon safety range is
AS11	WEAPONS FREE. ASW weapons are free in all sectors (or) (ASW weapon from Table A.) 1. Between bearings and from formation center 2. In sector(s) indicated
AS12	TORPEDO MISFIRE bearing Note: When breech is safe, NEGAT superior is to be signaled (i.e., NEGAT AS12 bearing).
AS13	

1301 COMMAND

AS14 DISPATCH SAU. Designate and dispatch SAU (consisting of number of units, figure followed by H indicates number of helicopters) to investigate contact or datum designation indicated following DESIG (bearing , distance , from this unit or unit indicated). (Maximum speed is) 1. Active 2. Active/passive at SAU commander's discretion 3. Passive
Example: AS14—3—1—1H DESIG 1232—300—10—15 Designate and dispatch passive SAU consisting of one ship and one helicopter to investigate contact or datum 1232, bearing 300° true, distance 10 miles from this unit. Maximum speed is 15 knots.
AS15 INVESTIGATE. Leave present assignment to investigate (bearing), (range). 1. Active sonar contact 2. Goblin (following DESIG) 3. Passive sonar contact 4. Persicope/snort
AS16 INVESTIGATE. Leave present assignment to investigate datum designation of track number indicated following DESIG in position (position established at time).
AS17 SAU DURATION. Terminate SAU ((List A)) ((List B)). List A 1. If not in contact A. After minutes B. After a search to miles from QQ or ZZ
AS18 SAU COMMANDER. Assume command as SAU commander (or). 1. SAU commander is
AS19 FORM SAU and investigate (bearing from this unit or unit indicated distance). 1. Bottomed contact (in position) of unit indicated 2. Contact 3. Datum (following DESIG) 4. Goblin (following DESIG) 5. Racket (following DESIG) 6. Spook (following DESIG)
AS20 SCENE OF ACTION COMMANDER. Assume commmand as SAC (or). 1. SAC is

AS21		DETACH AND TAKE POSITION, no closer than thousand yards to this unit or unit indicated, in a sector so as to intercept contact presently bearing, distance, from this unit or unit indicated. Avoid cavitation and maintain passive search.
AS22		CEASE PASSIVE SEARCH and commence active search. (Search bearings to), (range from to thousand yards).
1302	CONDI	TIONS
AS23		PREDICTED SUBMARINE INTERCEPT RANGE of is hundred yards. 1. Self-radiated noise 2. Short-range sonar 3. Medium-range sonar 4. Long-range sonar
AS24		BATHYTHERMOGRAPH 1. Assume bathythermograph guard duty (and report readings every hour(s)) 2. Bathythermograph drop completed 3. I am making bathythermograph drop 4. Make bathythermograph drop and report reading 5. Report bathythermograph reading
AS25		BATHYTHERMOGRAPH READINGS are* Complete signal with as many five-digit groups as are needed to report significant points in the vertical gradient of sea water in multiples of ten feet/meters at which this temperature occurs. The last three digits of each group indicate water temperature to the nearest tenth of a degree of Fahrenheit/Celsius. For depths less than 100 feet/10 meters, the first of the five digits of each group will be zero. To report depths greater than 990 feet/99 meters, separation groups of 99901, 99902, and so on shall be used to indicate that the depths following are between 1,000 to 1,990 feet/100 to 199 meters 2,000 to 2,990 feet/200 to 299 meters, and so on, respectively. To report negative degrees Celsius, 50 is added to the absolute value of each negative reading (e.g1.3 = 50 + -1.3 = 50 + 1.3 = 513). The final group of the signal indicates the time of the bathythermograph reading. **DESIG** C inferior to the signal indicates depths are in meters and temperatures are in degrees Celsius.
	Example	: AS25—00602—09602—45565—99901—00543—99902—35501—1245 The sea is 60.2 °F at the surface; 60.2 °F at 90 feet; 56.5 °F at 450 feet; 54.3 °F at 1,000 feet; and 50.1 °F at 2,350 feet. The reading was taken at 1245.
		AS25—00513—03509—13038—99903—25078—2145 DESIG C The sea is negative 1.3 °C at the surface; negative 0.9 °C at 3 meters; 3.8 °C at 13 meters; and 7.8 °C at 325 meters. The reading was taken at 2145.

AS26 CONVERGENCE ZONE annulus range is (inner) thousand yards (outer) thousand yards. 1. First 2. Second 3. Third 4. Bottom bounce
AS27 PREDICTED SONAR RANGES for all sonars of this unit or for unit(s) indicated are as indicated in hundred yards. (Sonar range predictions are for the type of target indicated following DESIG). 1. Minimum and maximum at periscope depth (1) 2. Minimum and maximum at maximum target depth of meters (2) 3. Minimum and maximum at best evasion/antidetection target depth of meters (3) 4. Minimum and maximum at target optimum listening depth of meters (4) 5. Inner and outer edges of convergence zone 6. Horizontal range to first bottom bounce zone Minimum ranges are related to the least favorable aspect of the submarine, maximum ranges to the most favorable aspect.
Example: AS27—1—90—150—2—155— 230—3—30—50—80—4—155—230—200—5—260—300 DESIG SSK Predicted sonar ranges for all the sonar of this unit are: between 9,000 and 15,000 yards on a submarine at periscope depth; between 15,500 and 23,000 yards on a submarine at maximum operative depth of 300 meters; between 3,000 and 5,000 yards on a submarine at best depth evasion/antidetection depth of 80 meters; between 15,500 and 23,000 yards on a submarine at optimum listening depth of 200 meters; convergence zone spreads from 26,000 to 30,000 yards; sonar range predictions are for a target type SSK.
Notes: (1) Min/Max ranges refer to Min TS - Max Sonar Speed/Max TS - Optimum Sonar Speed respectively (if not differently ordered) (2) Ranges are chosen between the best performing sensors (HMS or VDS) for each depth (3) Best evasion/antidetection target depth refers to the depth at which the minimum sonar ranges toward the submarine occur (4) Optimum listening depth refers to the depth at which the submarine has maximum detection range toward surface units
AS28 TACTICAL SONAR RANGE for this unit or unit(s) indicated (or) is hundred yards. 1. Helicopters 2. Ships
AS29 SONAR RANGE PREDICTION. Unit(s) indicated is (are) to make their sonar range prediction (for a target indicated following DESIG) employing the following values: 1. Unit(s) speed (in knots) 2. Minimum target strength of dB 3. Maximum target strength of dB 4. Target maximum depth (in meters) Example: AS29—1—16—2—3—3—15—4—300 DESIG SSK Units indicated are to make sonar range prediction based on a unit speed of 16 knots, minimum target strength of 3 dB, maximum target strength of 15 dB, and a maximum target depth of 300 meters. Target is SSK.
AS30 LAYER DEPTH is feet.

1303 CONTACT

AS31	AIRCRAFT CONTACT. Aircraft has indicated (bearing from this unit or unit indicated) at time 1. Behavior 2. IFF 3. Radio 4. Visual	ed by contact with a submarine d, distance miles) (or in position
AS32	3	A) ((List B)) List B A. Active B. Passive (broadband) C. Passive (narrowband)
AS33	DEPTH of submarine is feet.	
AS34	AIRCRAFT HOLDS CONTACT on (be cated, range thousand yards). 1. Active sonobuoys 2. Active sonar 3. ESM 4. Infrared detection system 5. Lofar buoys 6. MAD gear 7. Passive sonar 8. Radar 9. Visual	earing from this unit or unit indi-

AS35 INDICA	ATIONS. Submarine indications	are	(in position).
	TOWED ARRAYS/HYDROPHONES or SONOBUOYS		SONAR (Cont.)
1	. Fast propellor noise	22.	Plot and/or recorders indicate likely movement
2	. Slow propellor noise	23.	Recorder trace is satisfactory
3	. Can hear submerged signals	24.	Echo sounds good
4	. Can hear echo sounder signals	25.	Extent of target is satisfactory
5	. Receipt of submarine attack signals	26.	Bottomed target appears to be
	or underwater telephone		shaped like a submarine
6	. Discreet frequencies associated	27.	
	with nonfriendly submarine	28.	
7	. Discreet frequencies associated	29.	
	with friendly submarine	30.	
	RADAR		SEARCH RECEIVERS and DIRECTION FINDERS
8	. Persicope (or snort) radar echo		DIRECTION FINDERS
g	. Disappearing radar echo	31.	Characteristics were those of
10			submarine radar
11		32.	Characteristics were those of
12			submarine VHF voice
13		33.	Characteristics were those of
			submarine VHF radiotelegraph
	SIGHTING	34.	Interception classified definite
	SIGITING		ground wave and bearing was
14	. Conning tower (or wake) was seen		accurate
15	. Snort (or periscope) was seen	35.	Procedure used was probably enemy
16	. Diving swirl was seen	36.	Preliminary call (or dying out signals)
17	. Oil (or flotsam) was seen	0.7	heard
18			
19			
20			
		40.	
	SONAR		
21	. Doppler effect is present		
AS36 MOVE	MENT OF SUBMARINE is 1. Accelerating 2. Ascending 3. Backing down 4. Closing this unit or unit indicated 5. Diving 6. In hard turn (direction indicated by F 7. Opening this unit or unit indicated 8. Slowing 9. Stopped	-· POR	Г/STBD)
1	9. Stopped0. Surfacing		

AS37		POSITION. Submarine's position was obtained by _	(List A) (of (List B))
		(and is accurate within miles).	
		List A 1. Bistatics 11. Sighting 2. Cross-fixing, passive 12. Sonar, active 3. Direction finding 13. Sonar, passive 4. ESM bearing 14. Sonobuoy, active 5. JEZEBEL 15. Sonobuoy, passive directional by other forces 16. Torpedo attack 7. JULIE 17. Towed array 8. MAD 18. Unknown 9. Missile attack 19. Other (type following DESIG)	List B A. Helicopter B. Patrol aircraft C. Shore D. Surface ship E. Submarine F. Unknown G. Other (type following DESIG)
AS38		SCREW COUNT is rpm (on shaft(s)).	
AS39		SONOBUOY is (designation of sonobut 1. In contact 2. Not in contact 3. Operating efficiently 4. Not operating efficiently	loy).
AS40			
AS41			
1304	COUNT	ERMEASURES	
AS42		STREAM/LAUNCH protective devices (or/at "Recover device already streamed." 1. Noisemakers 2. Torpedo decoys 3. Long stay 4. Short stay 5 feet). Inferior to NEGAT means:
AS43		TORPEDO COUNTERMEASURES. Take torpedo 1. According to intentions (or plan) 2. For closing to attack with short-range weapons 3. On entering the torpedo danger area 4. Operate torpedo decoys 5. Operate torpedo detection equipment 6. When submarine is detected within torpedo danger	
AS44		TORPEDO. Suspect that submarine has fired torpolear of this area for 15 minutes and take appropriate merals may be added to indicate estimated initial of	countermeasures. Three nu-

AS45	NOISE REDUCTON. Operate ship's self-generated noise-reduction equipment (masking devices).
AS46	
AS47	
1305	EQUIPMENT
AS48	CONDITION of (<i>List A</i>) is (<i>List B</i>) (until).
	List A 1. Helicopter sonar 2. Hull sonar 3. Onboard ASW processor 4. Towed array 5. VDS List B A. Fully operational B. Capable of omnidirectional transmissions only C. Capable of passive operation only D. Capable of reduced power operation E. Incapable of being operated
AS49	DOMES/VDS TRANSDUCERS 1. Lower domes 2. Raise domes 3. Lower VDS transducer to depth desired (or to a depth of feet) 4. Lower VDS transducer to a maximum depth of feet 5. Recover VDS transducer
AS50	FREQUENCY of sonar equipment is kiloHertz.
	AMBIENT NOISE at decaHertz is decibels. Complete signal with as many six-digit groups as are needed to report significant ambient noise levels at various frequencies. The first three digits of each group indicate frequency in decaHertz (10 Hertz) at which the measurements were taken. The last three digits of each group indicate the noise level in decibels (dB) with reference to 1 micro-Pascal. For frequencies less than 1000 Hertz, the first digit shall be zero and for frequencies less than 100 Hertz, the first two digits shall be zero. For noise levels less than 100 dB, the first digit shall be zero. The last group in the signal indicates the time of the ambient noise measurement. Example: AS51—005101—010081—020070——100062—1315 The ambient noise level at 50 Hertz is 101 dB, at 100 Hertz it is 81 dB, at 200 Hertz it is 70 dB, and at 1,000 Hertz it is 62 dB. The time the measurement was taken is 1315.
AS52	LIGHTS. Use ASW lights (or). 1. Use all around red masthead lights 2. Use special ASW lights

	MACHINERY. Stop main and auxiliary machinery for 2 minutes (or minutes) in order to make passive search.
	OPERATE VDS. Transmit on VDS transducer at depth desired (or at a depth of feet).
AS55	 SONAR OPERATION is as indicated: Operation of sonar emission equipment is authorized in accordance with standard instructions. Operation of sonar emission equipment is authorized for tuning, maintenance, and calibration. Sonar emission equipment may be used for navigation. Silence all sonar emission equipment. Energize VDS transducer. De-energize VDS transducer. Operation of fathometer is authorized. Operation of underwater telephone is authorized.
	SONAR WATCH. Set sonar watch (or). Numerals following indicate frequency in kiloHertz. 1. Combined listening/echo watch 2. Echo sweep 3. For communication purposes with ship in company or with ship(s) or unit(s) indicated 4. For communication purposes with submarine(s) 5. Listening watch 6. To assist in navigation
	UNABLE TO OPERATE sonar equipment effectively (due to). (Equipment type from Table E.) 1. Excessive self-noise 2. High speed 3. Interference caused by you or unit indicated 4. Marine life 5. Shallow water 6. Shipping density 7. Station in the formation 8. Weather conditions
AS58	UNABLE TO USE ASW WEAPON(S) (until).
AS59	TOWED ARRAYS towed acoustic arrays or other devices. 1. Stream 2. Recover
AS60	SONAR MODE OF OPERATION is 1. Convergence zone 2. Bottom bounce
AS61	

1306 EXERCISES

a. SIGNALS AS62 CARRY OUT ASW PRACTICE NUMBER (for minutes). AS63 EXPLOSIVE CHARGES. Fire explosive signal charges. AS64 ORDER SUBMARINE to ____ (List A) by any means (or by ____ (List B)). List A List B 1. Close this unit or unit indicated A. Explosive signal to facilitate communications B. Radio 2. Come to communications depth C. Sonar signaling (SST) 3. Indicate her position D. Underwater telephone (UWT) 4. Remain at safe depth 5. Steer safety course 6. Surface AS65 PROCEED CLEAR of submarine (and _____). 1. Maintain cavitation speed 2. Maintain speed of at least 12 knots 3. Operate at a speed avoiding cavitation 4. Stop engines and tap hull AS66 VDS CABLE LENGTH. For submarine safety reasons, length of VDS cable is not to exceed feet. AS67 SUBMARINE SAFETY COURSE is . . AS68 SUBMARINE SIGNAL. Have sighted . . 1. Recognition flare, red 2. Submarine grenade, black 3. Submarine grenade, green 4. Submarine grenade, red 5. Submarine grenade, yellow 6. Submarine markers 7. Torpedo tracks 8. Water shot 9. White smoke candle

10. Yellow smoke candle

MTP 1(D), Vol. II

AS69		 SUBMERGE (or submerge to depth). 1. Communication 2. Exercise 3. Periscope 4. Snort 5 feet
AS70		SURFACE (or come to depth). 1. Communication 2. Exercise 3. Periscope 4. Snort 5 feet
AS71		. TAKE SUBMARINE DIVING STATION in accordance with AXP-1/MXP-1.
AS72		. TAKE SUBMARINE SURFACING STATION in accordance with AXP-1/MXP-1
AS73		. SUBMARINE DIVING COURSE. My diving course or submarine diving course i
AS74		. SURFACING SUBMARINE. Unit responsible for surfacing submarine is
AS75		. DIVE FOR SERIAL Report when ready to start the exercise.
AS76	•	. COMEX/FINEX TIME is 1. COMEX 2. FINEX

b. FLAG SIGNALS FOR SUBMARINE AND ANTISUBMARINE EXERCISES

(1) SAFETY PRECAUTIONS AND CONTROL SIGNALS

SIGNAL	USED BY	MEANING
CODE NE2		You should proceed with great caution; submarines are exercising in this area.

(2) TACTICAL AND INFORMATIVE SIGNALS (not concerned with safety precautions)

SIGNAL	USED BY	MEANING
Flag FOUR over Flag SEVEN	Target ship for submarine attack.	Open to attack by submarines. Torpedoes may be fired in accordance with orders for the exercise.
Flag FOUR over Flag FOUR (displayed on both sides)	Target ship for submarine attack.	Open to attack by submarines. Torpedoes must not be fired.
Flag QUEBEC	Submarine	Disregard me. I am not open to attack. I am not to be reported.

c. SUBMARINE PYROTECHNIC SIGNALS (See AXP-1/MXP-1 for details of use)

Identification Signal	EMERGENCY. Submarine in serious trouble and will surface immediately if possible. Ships are to clear area immediately and stand by to render assistance.
YELLOW or WHITE Smoke or Flare	Submarine coming to surface or periscope depth. Ships are to clear the immediate vicinity and maintain cavitation speed.
GREEN Flare	Submarine attack signal.

NOTE: If an unexpected signal, other than a GREEN signal, is sighted by ASW units, they are to anticipate an emergency surfacing.

1307 INTELLIGENCE

AS77	 . ENEMY SUBMARINES are believed to be in this vicinity (or in position	_)
AS78	 . FRIENDLY SUBMARINE bearing (distance).	

AS79						
AS80						
AS81						
1308	SEARC	н				
AS82		APPROAC 1. Dire 2. Inte 3. Offs	rcept	d appro	oach to datum.	
AS83		 Dat Sce ETA 	H TO DATUM/CON um identity ene of action commander A at datum/contact isA at torpedo danger area	is	RMATION	
AS84		CONTINUE	THE SEARCH.			
AS85		DATUM (or at		om this unit o	or unit indicated distance	· miles
AS86		(a) De (b) Po (c) Da (d) La (e) Da (f) So 1. 2. 3. 4. 5. 6. 7. 8.	as indicated. signation sition tum error st known course and spe tum time urce of information is List A Disappearing radar ESM MAD Radar Sonar Sonobuoy Towed array Visual assification of contact	_ contact (<i>List A</i>	A) ((List B)) List B A. Active B. Passive (broadband) C. Passive (narrowband)	

AS87 HELICOPTERS RANDOM DIP. Helicopters (indicated) are to random dip 1. In sector between true bearings and and between distances and miles from unit or position indicated. 2. Within areas
AS88 INTENTIONS. SAU commander's or SAC's intentions are as indicated. 1. PLAN RED. Attack method, carry out plan, (support method, carry out plan) 2. PLAN BLACK. Lost contact action, carry out plan(s)) Example: AS88—1—14AH PLAN RED. Attack and support method, carry out plan 14AH (CORDON).
AS89 MARKER. Drop marker (). 1. At datum 2. In position indicated
AS90 SONOBUOY PATTERN. A sonobuoy pattern (consisting of type buoys bears from this unit or unit indicated at range 1. Active 2. Passive
AS91 SONOBUOY POSITION. Sonobuoy number(s) is (are) located bearing from this or unit indicated range thousand yards.
AS92 SEARCH for submarine at datum datum time
AS93 SONAR SEARCH. Conduct sonar search (between bearings and) (on bearing). 1. Active 2. Passive
AS94 SUBMARINE'S LIMITING COURSES and SPEEDS are as indicated. 1. Limiting courses are to 2. Limiting speeds are to Example: AS94—1—270—300—2—12— 18 Submarine's limiting courses and speeds are 270° to 300° and 12 to 18 knots.
AS95

MTP 1(D), Vol. II

1309 ASW SEARCHES AS96 AIRCRAFT SEARCH. Carry out Air Plan number Details of plan may be given by numeral groups following in the order given in the plan. Indicate numeral and/or letter groups omitted by substituting NEGAT. AS97 **NOT RELEASABLE** AS98 NOT RELEASABLE AS99 INTERCEPTING SEARCH. Carry out intercepting search (from _____). 1. Ahead 2. Astern 3. PORT or STBD flank as indicated and away from reported target position 4. PORT or STBD flank as indicated and towards expected target position AS100. . . . OAKTREE. Carry out ASW search plan OAKTREE for ____ search . 1. Area 2. Bottom 3. Intercept 4. Lost contact AS101. . . . REPEAT SEARCH using previously assigned search center(s) (or use search center bearing ____ distance ____ hundred yards from datum).

AS102. . . . SEARCH CENTER is ____ at zero time ____ (____). Search center must be located by reference points in accordance with Article 166a.

1. And is marked with a smoke marker

MTP 1(D), Vol. II

When signaling the details of ASW searches by flaghoist the basic group must be hoisted and left flying in a superior position while the successive data hoists are displayed to signal the details. The execution of the basic group commences the search.

AS103	SEARCH DETAILS. Carry out ASW search plan* . Details of search plan are
	*The suffix H to the method designator indicates that helicopters are taking part. 1S OAKTREE (a) Origin of search bearing at hundred yards from ship making the signal (b) Direction of search 2S NOT RELEASABLE
	20 NOT RELEAGNEE
	14AS CORDON (sector assignments followed by call signs (radius of attack zone if different from 3,000 yards) 52S NOT RELEASABLE

AS104. . . . NOT RELEASABLE

AS105 SUPPORT METHOD. Carry out support method*
*The suffix H to the method designator indicates that helicopters are taking part.
11A NOT RELEASABLE
14AS CORDON (sector assignments followed by call signs (radius
of attack zone if different from 3,000 yards)
Example: AS105—14AS Carry out support method 14AS (CORDON).
AS106 CARRY OUT TOWED ARRAY BARRIER defined as follows: 1. Origin of barrier and initial point of patrol, in latitude and longitude 2. Direction of patrol line (three digits) 3. Length of the barrier in nautical miles (two digits) 4. Patroling speed (two digits) 5. Start time (date-time group)
Example: AS106—1—3320N8—01120W4—2— 045—3—20—4—12—5—031230A9 Carry out towed array barrier. Initial point in position 33°20'N 11°20'W. Direction of barrier is 045°. Length is 20 nautical miles. Speed is 12 knots. Starting time will be 031230A.
AS107
AS108
1310 DEFENSE IN HARBOR
AS109 NOT RELEASABLE
AS110 DETECTION (type) has been obtained, which may be due to a submarine or small battle unit approaching harbor. 1. Active sonar 2. ESM 3. Loop crossing 4. Passive sonar 5. Radar 6. Sighting 7. Sonobuoy
AS111
AS112



1311 ASW ACTION TABLE

The numeral flag indicator for the table (Flag 1) may be left flying in a superior position when successive signals from the same table are being made.

	AM the (geographic sector preceded by DESIG). 1. Attacking ship 2. Assisting ship 3. Directing ship 1A1 DESIG NW I am the attacking ship in the northwest sector.
1BA	SSUME DUTIES of (geographic sector preceded by DESIG). 1. Attacking ship 2. Assisting ship 3. Directing ship
1C L	OST CONTACT. In event of lost contact, units are to carry out search plan 1. OAKTREE 2. ACORN 3. PINEAPPLE 4. CORDON
1D A	TTACK (PORT/STBD). 1. I am ready to attack (with ASW weapon from Table A) 2. I am commencing attack (with ASW weapon from Table A) (safety range is) 3. Stand by for weapon firing (with ASW weapon from Table A) (bearing), (range) 4. Attack completed (firing bearing), (firing range) 5. Attack aborted
1EC	ONDUCT attack (with ASW weapon from Table A).
	ONOBUOY CONTACT. I am holding sonobuoy contact bearing from this nit or position indicated (range thousand yards).
1G M	IANEUVERING. I am maneuvering to maintain () contact. 1. Convergence zone 2. Bottom bounce

1H	position indicated at range (<i>List B</i>)).	hundred yards (believed to	
	List A 1. Snorkel or periscope 2. Submarine	List B A Enemy B. Friendly C. Unidentified	
1L	I AM EXPERIENCING ACOUST cated to 1. Go passive 2. Open range from this unit 3. Change sonar frequency	TIC INTERFERENCE. Request	unit or units indi-
1J	PASSIVE SONAR CONTACT (indicated). 1. Torpedo 2. Possible submarine 3. Decoy/jammer 4. Surface vessel low speed 5. Surface vessel high speed 6. Undetermined	evaluation) (bearing	g from this or unit
1K	SUBMARINE ASPECT is 1. Bow 2. Beam 3. Quarter 4. Stern	(PORT/STBD).	
1L	ACTIVE SONAR CONTACT. I a from this unit (range hund		
1M			
1N	COMMUNICATIONS. I have munications with submarine. List A 1. Good 2. Weak 3. Fading 4. Garbled 5. Intermittent 6. No	List A) (type (List B)) List B A. Voice B. CW C. RATT D. Covered RATTIACS E. IACS	underwater com-

10 KE	EP CLEAR of this unit or unit indicated or position indicated (or). 1. Contact (bearing from me, range hundred yards) 2. Operational stand-off range 3. Emergency stand-off range 4. Sonobuoy field (bearing from me, range hundred yards)
	BMARINE'S bearing, range, depth, course, and speed are as indicated from unit or unit indicated. (a) Bearing (b) Range in hundreds of yards (c) Depth in tens of feet (d) Course (e) Speed (f) Time
1Q OP	ERATE SONAR as desired (or in). 1. Passive mode 2. Active mode
1R CO	NTACT. I have a (List A) sonar contact (on (List B)). List B 1. CERTSUB 2. PROBSUB 3. POSSUB, confidence HIGH (numeral 3 or 4 may be added following DESIG) 4. POSSUB, confidence LOW (numeral 1 or 2 may be added following DESIG) 5. NONSUB 6. Bottomed submarine 7. Decoy 8. Marine life 9. Mine-like 10. Sea bottom 11. Sonar jammer 12. Surface vessel 13. Torpedo 14. Wake 15. Wreck
1SCO	NTACT. Consider your present contact is a submarine (or). 1. CERTSUB 2. PROBSUB 3. POSSUB, confidence HIGH (numeral 3 or 4 may be added following DESIG) 4. POSSUB, confidence LOW (numeral 1 or 2 may be added following DESIG) 5. NONSUB 6. Bottomed submarine 7. Decoy 8. Marine life 9. Mine-like 10. Sea bottom 11. Sonar jammer 12. Surface vessel 13. Torpedo 14. Wake 15. Wreck

1T TAKE STATION 1. (Bearing) from this or unit indicated, (range thousand yards) 2. From this unit on circle, radius thousand yards 3. From contact on circle, radius thousand yards 4. In sector(s) indicated	
1U SONAR CONTACT is firm (or). 1. Strong 2. Medium 3. Weak 4. Fading 5. Intermittent	
1V DOPPLER effect is estimated as (knots). 1. Away/down 2. Toward/up 3. None	
1W DECOY. Submarine has released (or is releasing) decoy of target type. 1. Hydrophone 2. Noisemaker 3. Radar 4. Sonar echo	
1X SUBMARINE is under me or ship indicated (or). 1. Close to my PORT or STBD side as indicated 2. Close astern	
1Y LOST CONTACT. I have lost contact (contact last held bearing range hundred yards).	
1Z BREAK OFF. The operation is to be discontinued and ships are to maneuver avoid collision, resuming the action as soon as practicable.	to

AIRCRAFT AV AIRCRAFT AV

MTP 1(D), Vol. II

CHAPTER 14

AIRCRAFT

1400	Command/Control
1401	Emergency
1402	Operating
1403	Readiness
1404	Scouting
1405	Over-The-Horizon Targeting

1400 COMMAND/CONTROL

AV1 ASSUME () control of aircraft (type from Table V). 1. Positive 2. Advisory
AV2 ASSUME tactical direction of aircraft (or type from Table V
AV3
AV4
AV5

EMERGENCY LANDING SIGNALS FROM AIRCRAFT

Signal Meaning

Series of SHORT flashes Require IMMEDIATE emergency landing.

Series of LONG flashes Require emergency landing but can accept short delay.

MTP 1(D), Vol. II

1401 EMERGENCY

AV6	
AV7	 DISTRESS. Aircraft in distress (is/has). DESIG followed by numeral(s) indicates number of personnel in aircraft. 1. Ditched 2. Forced down 3. Engine failure 4. Flying control failure 5. On fire 6. Overdue 7. Showing IFF distress
AV8	 EMERGENCY PROCEDURES. Make a slick for emergency landing (and/or). 1. Recover aircraft in distress 2. Rescue personnel–Abandon aircraft 3. Rescue personnel–Recover aircraft
AV9	
AV10 .	 RESCUED. Number of occupants rescued from crashed aircraft is State of health is A. Unhurt B. Slightly injured C. Seriously injured D. Dead
AV11 .	 SCRAMBLE HELICOPTER. Scramble weapon-carrying helicopter.
AV12 .	
AV13 .	
AV14 .	

MTP 1(D), Vol. II

1402 OPERATING

AV15
AV16 FLIGHT OPERATIONS. Carry out flight operations (or/and/using). 1. Coordinate flight operations with this unit or unit indicated 2. Delay flight operations for minutes 3. Independently to launch or recover aircraft 4. Method ALFA 5. Method BRAVO 6. Method CHARLIE 7. Postpone flight operations until 8. Resume flight operations
AV17 HELICOPTER OPERATIONS. Intend to conduct helicopter operations for Time signal should be used to indicate commencement of operations. 1. Beanbag delivery 2. HIFR (Helicopter In-Flight Refueling) 3. Mail transfer (in sequence of units) 4. Personnel transfer 5. VERTREP 6. RRR (Rotors Running Refueling) 7. RRRR (Rotors Running Refueling and Rearming) 8. Training
AV18
AV19
AV20
AV21
AV22
AV23

AV24 LIGHTING MEASURES. Use lighting measure Additions to the basic lighting measure are indicated by DESIG followed by appropriate letters from Vol. Table 6-5; exceptions are indicated by NEGAT followed by appropriate letter from the table. 1. White 2. Green 3. Blue 4. Green plus bright side lights
Example: AV24-3 DESIG O NEGAT A Use lighting measures BLUE plus red truck lights on other ships; do not turn on carrier red truck lights.
AV25
AV26* PROGRESS of aircraft (fixed-wing or helicopter) operations is as indicated: 1. I am ready to operate fixed-wing aircraft when wind conditions are suitable. 2. I am ready to operate helicopters when wind conditions are suitable. 3. I am operating fixed-wing aircraft. 4. I am operating helicopters. 5. I have fixed-wing aircraft to launch (and to recover). 6. I have fixed-wing aircraft to launch (and to recover) on out-of-wind cours. 8. My flight operations have been delayed (about 10 minutes). 9. My flight operations have been suspended (a time signal indicates estimated time of resumption). 10. I have completed operating fixed-wing aircraft. 11. I have completed operating helicopters. 12. I have extended fixed-wing operations until 13. I have extended helicopter flight operations until 14. I am ready to operate helicopter on minutes notice (type following DESIG). 15. I am carrying out a helicopter test flight.
Examples: AV26-5-6 I have 6 fixed-wing aircraft to launch.
AV26-5-6-2 I have 6 fixed-wing aircraft to launch and 2 to recover.
AV26-5-0-6I have 6 fixed-wing aircraft to recover. *When using flags, flags F and H are to be used in preference to $AV26$
when using jtags, jtags I and II are to be used in prejerence to Av 20 when appropriate. (See Article 3002 for helicopter/VERTREP signals.)

AV27 HEL	ICOPTER STATUS is 1. Alert (minutes) 2. Airborne 3. Down for routine maintenance 4. Down for repair	
may Examples: AV	E ACTION(List A) (B. CAP C. Direct air support D. Exercise E. Helicopter F. Radar calibration G. Relief H. Rescue I. Search J. Spotting K. Strike L. Shadower M. Weapon-carrying helicopter N. Attack P. Marker
AV29 TIME	E INTO WIND. Time required in	nto the wind will be minutes.
nal i		le to operate aircraft due to A time sigation. Numeral(s) following DESIG indicates take off.
AV31		

AV32
AV33
AV34
1403 READINESS
AV35 ALERT STATE. Take action as indicated. Number of aircraft and aircraft type from Table V may be indicated. Call sign may be indicated. 1. Airborne alert 2. Deck alert-time minutes to be airborne 3. Stand down/release (until). Example: AV35-2-10-25V-0F To ship whose call sign is 0F: deck alert, 10 minutes to be airborne, for ASW weapon-carrying helicopter.
AV36
AV37
AV38
1404 SCOUTING
AV39 AREA for aircraft scouting is a circle or ring identified by the following numeral groups, separated by TACK: (a) 1. Fixed origin 2. Moving origin (b) Outer radius, in miles (c) Inner radius, in miles
AV40 CENTER OF AREA. Center of aircraft scouting area is and is this unit or unit indicated or in position indicated. 1. Fixed 2. Moving (course speed)

AV41 PATROLS. Establish and maintain aircraft patrols. Two groups of numerals following and separated by TACK may be used to indicate number of aircraft in each patrol and number of watches or patrols per day. 1. Antisubmarine 2. Barrier 3. Combat air 4. Dawn and dusk 5. Low 6. Night 7. Radar picket 8. Rescue 9. Target 10. Target dawn and dusk 11. Target night
AV42 PROVIDE scouting aircraft (for). 1. Communication link with separated forces 2. Reconnaissance of enemy battle line 3. Reconnaissance of enemy carrier 4. Reconnaissance of enemy convoy 5. Reconnaissance of enemy detached forces 6. Reconnaissance of enemy main force 7. Special duty 8. Special link
1405 OVER-THE-HORIZON TARGETING
AV43 OVER-THE-HORIZON TARGETING. Utilize aircraft for over-the-horizon target ing. Number of aircraft and aircraft type from Table V may be indicated. Call sign may be indicated.
AV44
AV45

MTP 1(D), Vol. II

INTENTIONALLY BLANK





CHAPTER 15

GOVERNING GROUPS

1500 TABLE OF MEANINGS

BA	Action is being carried out (or I am)
BB	Action is completed (or I have)
BC	I recommend
BD	Report time when you will be ready (to)
BE	Report when ready (to)
BF	Ready (to) (at)
BG	My present intention is to
BH	Request permission to
BI	Action is not being carried out (or I am not)
BJ	If you desire
BK	When you desire
BL	When ready
BM	Enemy/opponent is or I am being
BN	When able
BT	For use, see Articles 164e and 164g
BU	Unable to
BV	Take action or information as indicated from appropriate supplementary table (see Chapter 34)
BX	Indicates end of series of groups governed by governing group
BY	Report when action completed
BZ	Well done

MTP 1(D), Vol. II



CHAPTER 16

COMMUNICATIONS

			1600 1601 1602 1603 1604	Establishing/Maintaining/Closing Down Miscellaneous Propagation/Interference/ RADHAZ (HERO) Relay/Repeat Security/Call Signs
1600	ESTAB	LISHING/MAINTAINING/CLOS		·
				MHz or circuit designation following
CM2			ted (on).	not in radio communication (or difficul- MHz or circuit designation following
CM3.		VISUAL WATCH. 1. Maintain continuous visual v 2. Maintain visual watch as ord 3. Secure visual watch from su 4. Secure visual watch (from _ 5. Set visual watch	dered unset to sunr	
CM4		ESTABLISH communications w	vith me or	unit indicated by (from CM6 list).
CM5.		ESTABLISH RADIO communic on circuit or channel designatio 1. Data link (type from Table 2. Morse A1A/A2A 3. Morse J2A 4. Voice A3E 5. Voice A2E 6. Voice F3E 7. Voice J3E 8. RATT J2B/F1B 9. RATT A2B 10. Other type of emission indi	n following E)	

CM6	METHOD. Use method. 1. Facsimile 2. Flaghoist 3. Flashing light 4. Link 11 5. Link 14 6. Link 16 7. Link 22 8. Loudhailer 9. Nancy 10. Nancy point of train (POT) light 11. Radiotelegraphy 12. Radiotelephony 13. Radioteletype 14. Semaphore 15. Single sideband (SSB) 16. Sonar 17. Underwater telephone 18. VHF bridge-to-bridge (channel) 19. VML (voice modulated light) 20. Battle force e-mail 21. E-mail
CM7	MAINTAIN RADIO WATCH (on MHz or circuit designation following DESIG). 1. Copy 2. Cover 3. Guard 4. Listening watch
CM8	SHIFT FREQUENCY on this or circuit indicated to 1. Primary frequency 2. Secondary frequency 3. Line number (following DESIG) 4. Frequency (following DESIG) 5. Channel (following DESIG)
CM9	COMMUNICATION PLAN IN FORCE (at) is as indicated (Frequency column letter/identifier of communication plan is (specified if necessary)). 1. NAMARCOMPLAN 2. NORBALCOMPLAN 3. SORMARCOMPLAN 4 (following DESIG)
1601 MISCE	LLANEOUS
CM10	SHIFT to frequencies from column (following DESIG) in present communication plan.
CM11	EXPEDITE signal(s) (by). 1. Acknowledging more promptly 2. Answering more promptly 3. Clearing the hoist 4. Making hoist on both sides 5. Making hoist on other side 6. Relaying more promptly

CM12	FREQUENCY in Hertz is 1. Kilo 2. Mega 3. Giga
CM13	GROUPS from have been used for the following (number of) groups. 1. Allied Guide to Masters (ATP 2, Vol. II) 2. International Code of Signals (INTERCO) 3. Naval and maritime air tactical code
CM14	NANCY traffic lists will be broadcast (or) hourly on the hour (or at). 1. Call periods will be established
CM15	SIGNALS. Following signals have been taken from publication indicated by its short title following DESIG.
CM16	ANSWERING. Answer in proper alpha/numeric sequence.
1602 PROPA	AGATION/INTERFERENCE/RADHAZ (HERO)
CM17	INTERFERENCE. Transmissions from this unit or unit indicated are interfering with communications or type of equipment indicated from Table E. Circuit designation following DESIG or frequency band from Table E may be indicated.
CM18	INTERFERENCE. An electromagnetic pulse (EMP) may cause communication and electronic equipment interference or damage.
CM19	PROPAGATION CONDITIONS for (List A) are (List B). List A 1. Below 3 MHz 2. 3 to 30 MHz 3. 100 to 156 MHz 4. 225 to 400 MHz 5. Frequency band from Table E Eist B A. Above average B. Average C. Below average D. Very poor E. Super-refraction conditions exist F. Sporadic refraction conditions exist G. Non-ionospheric propagation exists
CM20	RADIATION HAZARD (RADHAZ (HERO)) PRECAUTIONS. This unit has taken precautions to preclude, or warn of, RADHAZ (HERO) dangers on own equipment (or on own). 1. Aircraft 2. Personnel 3. Receivers 4. Transmitters
CM21	RADIO HAZARD (RADHAZ (HERO)) WARNING. This unit or unit indicated is operating high-power equipment in frequency band indicated from Table E (bearing).
CM22	RADIO HAZARD (RADHAZ (HERO)) EXISTS. Cease transmission on 1. HF over 500 watts 2. Frequency band from Table E

CM23	LASER EMISSION HAZARD WARNING. This unit or unit indicated is operating laser.
CM24	LASER EMISSION HAZARD PRECAUTIONS. This unit or unit indicated has taken safety precautions to preclude, or warn of, laser emission dangers on owr personnel.
CM25	LASER EMISSION HAZARD EXISTS. Cease laser emission.
1603 RELAY	//REPEAT
CM26	RELAY SHIP. Act as relay ship (on circuit indicated) (for unit(s) indicated). 1. Nancy 2. Radio 3. Sonar 4. Visual
CM27	REPEAT all visual signals by radio (using). 1. VHF radiotelephone 2. UHF radiotelephone 3. UHF radioteletype 4 MHz or circuit designation following DESIG)
CM28	
CM29	
1604 SECUR	RITY/CALL SIGNS
CM30	
CM31	
CM32	YOUR CIRCUIT DISCIPLINE is poor. Increased attention to COMSEC is required. (Circuit designation following DESIG.)
СМ33	
CM34	CRYPTO RESTART. Take this circuit (or circuits following DESIG) for crypto restart at this time).
CM35	DAILY CHANGING CALL SIGNS. Activate daily changing call signs (for day at this time (or at time).
CM36	AUTHENTICATION POLICY. Assume authentication policy (List A) or uncovered voice and CW circuits (List B). List A 1. ALFA 2. BRAVO B. MF/HF C. VHF/UHF

	ECURITY AND PRO r circuit designation for 1. To answer only p	ollowing DESIG).		(on	_MHz
CM38 C	ALL SIGN(List A 1. Hoist 2. Sound		(List B) call A. Visual B. Internation	List B		
CM39 V	1SUAL SIGNALING F 1. No restrictions or 2. Use only direction 3. Use only nondire 4. Use only coloure 5. Use only from su 6. Use only from su 7. Use only signals 8. Use only signals 9. Others following	n signaling nal flashing light ctional flashing ligh d filters nrise to sunset nset to sunrise from International C from ATP-1, Vol. II/	it Code of Signa	als		
CM40						

MTP 1(D), Vol. II

MTP 1(D), Vol. II

CHAPTER 17

COMMAND

1700 General Signals

1700 GENERAL SIGNALS
CO1 ASSIGNED. You are assigned to this unit or unit indicated.
CO2 ASSUME COMMAND (as). 1. Antiair warfare commander (AAWC) 2. Antisubmarine warfare commander (ASWC) 3. Antisurface warfare commander (ASUWC) 4. Composite warfare commander (CWC) 5. Helicopter attack group commander (HAGC) 6. Officer conducting exercise (OCE) 7. Officer conducting the serial (OCS) 8. Officer in tactical command (OTC) 9. Scene of action commander (SAC) 10. Screen commander (SC) 11. Search attack unit commander (SAUC) 12. Surface action group commander (SAGC)
CO3 COMMAND as (from CO2 list) is held in this unit or unit indicated.
CO4 COMPLY with my message (or message).

		DELEGATION OF OTC's FUNCTION(S). Responsibilities from Table of ATP 1, Vol. I, Chapter 1, indicated by numerals following DESIG, are delegated to unit indicated. : CO5—2 DESIG 207 c/s 4AH Responsibilities from Table 2 of ATP 1, Vol. I, Chapter 1, indicated by numerals following DESIG, are delegated to unit whose call sign is 4AH.
CO6 .		FORM unit (from Table F).
CO7 .		AUTHORITY TO DISPATCH is delegated to screen commander. (Limiting distances for ships and helicopters may be ordred separately.) 1. SAG 2. SAU
CO8 .		OFFICER (from Table P) is to take charge.
CO9 .		
CO10		ORGANIZATION. Assume organization (number, or as indicated by call sign or type indicator following). 1. Task 2. Type
		ORGANIZATION. Assume following type organization 1. Sequence numbers in order of call signs following 2. Composition of divisions and subdivisions (sequence numbers following unit indicators) 3. Division commanders are to be (sequence numbers) 4. Subdivision commanders are to be (sequence numbers) 5. CO11—1 c/s 4AH 6RT 3PT 2XE 4MX 1SZ 3FO 3QR—2 Div 1—1 2 3 4—
	Ехатріе	Div 2—5 6 7 8—Subdiv 1—1 2—Subdiv 2—3 4—Subdiv 3—5 6—Subdiv 4—7 8—3—1 5—4—1 3 5 7
CO12	!	PLAN/ORDER. Execute (or) plan/order from Table C (phase). 1. Use
CO13		SUPPORT this unit or unit indicated (by using support situation). 1. A 2. B 3. C

CO14	TACTICAL COMMAND. Assume (or _ indicated. 1. I am assuming 2. I have resumed) tactical command of this unit or unit
CO15	TACTICAL CONTROL. Assume (orcated. 1. I am assuming 2. I have resumed) tactical control of this unit or unit indi-
CO16	TAKE CHARGE (). 1. And conduct the exercise 2. And proceed as previously directed 3. And proceed to port 4. And proceed out of port 5. Of force (or) and maneuver a 6. Of force (or) for maneuvers 7. Of operations	s necessary for flying operations
CO17	RULES OF ENGAGEMENT (ROE). T indicated by numerals following DESI $List\ A$ 1. National	he following NATO (or (List A) ROE, G, are in force (or (List B)). List B A. Cancelled B Newly authorized
CO18		
CO19		
CO20		

MTP 1(D), Vol. II

CHAPTER 18

ENTRY AND DEPARTURE

	1800 1801 1802 1803 1804	Berth(ing) Channel/Swept Channel Getting Underway
1800 ANCHOR(ING)/WEIGHING		
ED1 ANCHOR IS PORT or STBD (which anchor is to be used. 1. At short stay 2. Clear 3. Dragging 4. Foul	5. Lost 6. Recovered 7. Secured 8. Slipped) may be added to indicate
ED2 ANCHOR (). PORT or STBD (or which anchor is to be used. 1. At your discretion 2. In accordance with previous instruct 3. In any unoccupied berth 4. In berth 5. In berths previously assigned 6. In berths previously occupied 7. In formation (number) (See A 8. In present position (or in position in 9. In present sequence 10. In succession from the rear 11. Let go another anchor 12. On account of fog 13. On bearing from ship indicates 14. On line of bearing (range beta	article 401.) dicated)	miles)

ED3	ANCHOR BEARS range hundred yards from my foremast. PORT or STBD (or DESIG) may be added to indicate which anchor is referred to.
ED4	ANCHOR WATCH. Set anchor watch.
ED5	BOTTOM is 1. Clay 2. Coral 3. Covered in weed 4. Hard 5. Mud 6. Pebbles 7. Rock, rocky 8. Sand 9. Shells 10. Soft
ED6	CAST or point ship (to PORT or STBD) (or). 1. As required 2. To course
ED7	SHIP IS AT ANCHOR/MOORED (using anchor) (anchor position/berth following DESIG). 1. Bow 2. Port 3. Starboard 4. Stern
ED8	FOUL HAWSE. Have foul hawse. A time signal indicates time at which it is expected hawse will be cleared.
ED9	KEDGE. I am unable to kedge off (or). 1. Kedge is clear 2. Kedge is foul
ED10	MOOR, with anchors, (). PORT or STBD may be used to indicate which anchor is to be let go first. 1. At your discretion 2. In accordance with previous instructions 3. In any unoccupied berth 4. In berth 5. In berths previously assigned 6. In berths previously occupied 7. In present position (or position indicated)

ED11
ED12 SHIP'S HEAD (or) is 1. Line of direction between anchors
ED13 SHORT STAY. Shorten in to short stay (or). 1. To fathoms 2. To shackles
ED14 UNMOOR (at).
ED15
ED16 VEER CHAIN (). 1. To fathoms 2. To shackles
ED17
ED18 WEIGH ANCHOR (or). PORT or STBD may be used to indicate which anchor. 1. Weight second anchor 2. Secure anchors
ED19
ED20
1801 BERTH(ING)
ED21
ED22 BERTH ASSIGNMENT of this ship or unit indicated is
ED23 BERTH ASSIGNMENT. Hoist your berth assignment.
ED24 BERTH OCCUPIED. Berth assigned me is occupied.
ED25
ED26 CLEAR BERTH for this unit or unit indicated.

ED27					
ED28			SECURE ALONGSIDE (List A 1. This unit 2. Unit indicated 3. Berth indicated	(List A)) (as specified	
ED29			SECURE to buoy(s) (). 1. Bow and stern 2. In accordance with previou 3. Previously assigned 4. Previously occupied 5. To any unoccupied buoy 6. To buoy	us instructions	
ED30					
ED31			SHIFT BERTH to indicate side of the ship is to be next to 1. Berth 2. Buoy		dded to indicate which
ED32					
ED33					
1802	CH	ANN	IEL/SWEPT CHANNEL		
ED34					
ED35			CHANNEL. Lead down chann 1. Use swept channel	el (or).	
ED36			CHANNEL 1. Has been swept 2. Has depth of fathoms 3. Is clear 4. Is closed by boom (nets or 5. Is obstructed		

ED37	CHANNEL. Remain in swept channel (or). 1. Do not enter unswept water
ED38	CHANNEL. Direction of channel is
ED39	DEPARTURE INTERVALS. Units are to pass Point A at a Order of units of types may be indicated. 1. Distance interval of hundred yards 2. Time interval of minutes
ED40	ENTRY INTERVALS. Units are to pass Point X at a Order of units or types may be indicated. 1. Distance interval of hundred yards 2. Time interval of minutes
ED41	
ED42	GUIDE this unit or unit indicated through swept channel.
ED43	
ED44	MOVEMENTS. Follow my movements (or of) in conforming to channel by adjusting course and speed as necessary to pass over the same ground. 1. Column leader or unit indicated
ED45	OBSTRUCTION. Alter course as necessary to clear obstruction in channel (in position).
ED46	
1803 GETTIN	NG UNDERWAY
ED47	
ED48	DELAY getting underway (). 1. And remain at hours notice 2. And remain at minutes notice 3. Until 4. Until further orders

ED49 GET UNDERWAY (and). (Order of units or types may be indicated by call signs following.) 1. Comply with previous instructions 2. Form column in order of sequence numbers 3. Form column in quickest sequence 4. Proceed at minute intervals 5. Proceed out of port
ED50
1804 MISCELLANEOUS
ED51 HANDS FALL (at). 1. IN 2. OUT
ED52
ED53 ENTER harbor (at). 1. Zero time (zero time may be indicated) 2. Zero time minus minutes 3. Zero time plus minutes
ED54 LEAVE harbor (at). Departure plan may be indicated. 1. Zero time (zero time may be indicated) 2. Zero time minus minutes 3. Zero time plus minutes
ED55
ED56 OPEN is open (or will open at). NEGAT preceding means " is closed (or will close at)." 1. Bay 2. Channel 3. Entrance 4. Gate 5. Harbor 6. Port 7. River
ED57
ED58
ED59

MTP 1(D), Vol. II

CHAPTER 19

ENEMY

			1900 1901	Electronic Warfare Operations and Movements
			1902	Reporting/Intelligence
			1903	Warning
1900 EI	LECTI	RONIC WARFARE		
EN1				
EN2				
EN3				
EN4				
EN5				
1901 O	PERA	TIONS AND MOVEMENTS		
EN6		COURSE. Enemy course is (speed) indicate the limits within which the enemy is ex		
EN7		ENEMY MEAN LINE OF ADVANCE (MLA) is	degr	ees.

EN8 N	MINES. Enemy (L	st A) is (are) lay	ying mines (List B).
	List A 1. Aircraft 2. Submarines 3. Surface craft	B. <i>i</i> C.	List B Ahead of this or unit indicated Astern of this or unit indicated In position indicated On bearing
EN9			
EN10	1. Approaching this u 2. Approaching unde 3. Being reinforced 4. Drawing ahead 5. Dropping back 6. Endeavoring to es 7. Gaining advantage 8. In disorder 9. Launching aircraft 10. Leaving harbor 11. Losing advantage 12. Organizing SSM a 13. Organizing torpede 14. Putting landing for 15. Recovering aircraft 16. Retiring 17. Retreating 18. Scattered 19. Still in sight 20. Strongly supported 21. Superior 22. Threatening this un 23. Trailing this unit or 24. Using evasive stee 25. Well protected	nit or unit indicated cover of a smoke stack attack attack attack attack attack and an arrangement or unit indicated unit indicated unit indicated	screen
EN11			
EN12 F	POSITION. Enemy posit List A 1. Bearing (dista 2. Geographical, as in	nce miles) A. dicated B. C.	List B

EN13
EN14
EN15
EN16
1902 REPORTING/INTELLIGENCE
EN17
EN18 FORCES. Enemy (from Table F) is/are operating in the vicinity.
EN19
EN20 FORMATION. Enemy formation appears to be 1. In ASW disposition around screened units(s) 2. In AAW disposition around screened units(s) 3. In ASW disposition with no screened units(s) 4. In AAW disposition with no screened units(s) 5. Surface action group
EN21 FORMATION. Number of ships in enemy formation is
EN22 MISSILE SITE. Enemy missile site or platform is located on bearing from this unit or unit indicated distance miles.
EN23 REPORT. Make enemy (or) report. 1. Amplifying
EN24 REPORTING. Use for enemy reporting. (See Article 165c.) 1. TT 2. XX 3. YY 4. QQ 5. ZZ 6. Position indicated

EN25	 REPORTED. Enemy reconnaissance (or enemy) has reported this unit or unit indicated. 1. Aircraft 2. Submarine 3. Surface unit
EN26	 STATUS OF ENEMY. Enemy is 1. Destroyed 2. Disabled 3. Still engaged
EN27	 SUNK. Enemy ships of type indicated have been sunk. Number may be indicated following DESIG.
EN28	
EN29	 SHADOWING. Enemy (or enemy) (bearing) is shadowing this unit or unit indicated. 1. Aircraft 2. Submarine 3. Surface unit
EN30	 MARKING. Enemy (or enemy) (bearing) is marking this unit or unit indicated. 1. Aircraft 2. Submarine 3. Surface unit
EN31	
EN32	
EN33	

MTP 1(D), Vol. II

1903 THREAT WARNING

EN37

EN34 THREAT WARNING. (type of threat from List A) warning (severity from List B). List A List A List A List B F. Torpedo A. Air K. Acoustic 1. RED B. Surface G. Missile L. Electromagnetic YELLOW C. Submarine H. Bomb M. Chemical 3. WHITE D. Space I. Mine N. Nuclear E. Shore J. Laser O. Biological P. Physical Example: EN34—A1...Air warning RED. *EN34—AC1* . . . *Air and submarine warning RED*. EN34—AC1—B2... Air and submarine warning RED, surface warning YELLOW. EN34—CF1—AG2—M3... Submarine and torpedo warning RED, air and missile warning YELLOW, chemical warning WHITE. EN35 EN36

MTP 1(D), Vol. II

MTP 1(D), Vol. II

CHAPTER 20

ELECTRONIC WARFARE

Emission Control

2000

		2001 2002 2003	* *
2000	EMISSION CONTROL		
EW1.	BREAK SILENCE/TRANSMIT on 1. This circuit or circuit indicated 2. Frequency of MHz 3 (from Table E) NOT RELEASABLE		
EW2.	SILENCE LIFTED (on emissions 1. Acoustic 2. Electronic).	
EW3.	EMCON PLAN LINE. Unit indicated is to in EMCON plan).	o use line ₋	in EMCON plan in force (or
EW4.			
EW5.	FREQUENCY SWITCH PLAN. Use fre	equency s	witch plan (at).
EW6.			
EW7.	MAINTAIN SILENCE. Maintain complete A/B) to avoid intelligence collection (from List A) 1. Acoustic A. A. A. to F.ba 2. Communication B. HF 3. Data link C. Helicopte 4. Decoys D. Medium/lo 5. FC/NC radars E. Nonsecur 6. Jammers F. Other rada 7. Radars G. Short-ran H. VDS I. VHF/UHF	om (List B and radar r dipping so ong-range ra e ar ge radar	List C)). List C 20. AGI ()
EW8.			

EW9 RADAR EMISSION INSTRUCTIONS Use of this group with EW11, EW12, and EW 13 should be avoided. 1. Make sweeps on radar (type or frequency band from Table E) 2. Radar (type or frequency band from Table E) may be used for sweeps every minutes, commencing at 3. Radar (type or frequency band from Table E) may be operated in random intervals, commencing at, limiting each period of operation to sweeps with a maximum of periods of operation per hour. Example: EW9—3—119E—1230—5—6I-band radar may be operated in random intervals, commencing at 1230, limiting each period of operation to 5 sweeps with a maximum of 6 periods of operation per hour.
EW10 EMISSION DIAGRAM. Use emission diagram number following DESIG (column number). OTC may promulgate own emission diagrams if required and should number them so that this signal may be used for promulgation.
EW11 EMCON PLAN (identity following DESIG) now in force (or when indicated from Table W) in accordance with fleet or force orders. (See ATP 1, Vol. I, Chapter 5.) Example: EW11 DESIG B—84W EMCON PLAN B in force when directed.
EW12 EMCON PLAN PROMULGATION. EMCON plan is established as follows. The established plan is called (identity following DESIG)*. Use index letters (call signs, if required, for additional or specific units) and index numbers from the basic EMCON plan format in ATP 1, Vol. I, Chapter 5, followed by radiation status indicators (RSIs) (to be repeated if required). *EMCON plans are to be brought into force by group EW 11. Example: EW 12—A10E—c/s 9AW—10U—B15U—L15U DESIG B EMCON plan BRAVO
is established. It allows aircraft carriers essential use of all radars, unit with call sign 9AW unrestricted use of all radars, cruisers and pickets unrestricted use of I-band search/height-finding radar.
EW13 EMCON PLAN MODIFICATION. EMCON plan (identity following DESIG) is to be modified as indicated. The modified plan is called (identity following DESIG)*. *EMCON plans are to be brought into force by group EW 11.
Example: EW13 DESIG B—B15E DESIG B1 EMCON PLAN BRAVO is modified to allow cruisers essential use of I-band search/height-finding radars. The modified plan is called BRAVO ONE.
EW14
EW15
EW16

2001 ENEMY COUNTERMEASURES

EW17
EW18 COMMUNICATIONS DECEPTION. Enemy is on circuit 1. Suspected of sending false (deceptive) traffic 2. Using our authentication system 3. Using our call signs
EW19 COUNTERMEASURES DETECTED. Enemy use of countermeasures has been detected by this unit or unit indicated (on circuit/line preceded by DE SIG or frequency/band from Table E). 1. Break-lock 2. Chaff 3. Communications deception 4. Communications jamming 5. Decoy (mechanical reflectors) 6. Radar deception 7. Radar jamming 8. Unidentified
EW20 EFFECTIVENESS of enemy countermeasures is as indicated: 1. Can track intermittently 2. Jamming only affects equipment type or frequency band indicated from Table E 3. No difficulty in tracking targets 4. Unable to lock on targets 5. Unable to track targets
EW21
EW22
2002 ELECTRONIC SUPPORT MEASURES
EW23* BEARING (or position) of Racket No by D/F is *EMERG I is to be used for an interception constituting an immediate threat.
EW24
EW25
EW26 INTERCEPT CLASSIFIED FRIENDLY. Racket No. now classified friendly.

EW27 INTERCEPT OF UNAUTHORIZED EMISSION. This unit or unit indicated has intercepted friendly emissions (from unit indicated) which are violating silence conditions in force. 1. Communications 2. Homing beacon 3. IFF 4. Jamming 5. Other equipment from Table E 6. Radar 7. Sonar
EW28 INTERCEPTED. This unit or unit indicated has intercepted enemy emissions on bearing on frequency of MHz, indicated by numerals following DESIG, or by frequency band from Table E. (Type of emission is from Table E.) (Emission is designated Racket No) 1. Communications 2. Guided missile 3. Infrared 4. Jamming 5. Navigational aid 6. Proximity fuze 7. Radar, airborne source 8. Radar, shipborne source 9. Radar, shipborne source 10. Radar, unknown source Example: EW28—8—047 DESIG 9350—30E—3462 This unit has intercepted enemy shipborne source radar emissions on bearing 047° on frequency of 9350 MHz. Type of emission is fire control radar and is designated Racket No. 3462.
EW29
EW30
EW31 SET ESM WATCH. Set (from List A) watch for enemy emissions on (from List B). (Enemy call sign is) List A 1. D/F 2. Intercept A. Frequency band from Table E B. Frequency in kHz C. Frequency in MHz D. Spot No
EW32
EW33
EW34

2003 ELECTRONIC COUNTERMEASURES

EW35 AIRCRAFT DISPENSED CHAFF. Use aircraft dispe	ensed chaff (type from Table
EW36 ELECTRONIC COUNTERMEASURES. Use against radar/communciations (from Table E) 1. Deception (spoof) 2. Disruption (jam)	
EW37 DECOYS. Use decoys to simulate (at). 1. Aircraft, few 2. Aircraft, many 3. Ship, large 4. Ship, small 5. Submarine snort 6. Task group	
EW38 INFRARED DECOYS. Use infrared decoys to prote	ct own unit.
EW39 DECEPTION REPEATER. Use deception repeater (own unit or unit indicated (against Racket No	
EW40	
EW41 FIRE CHAFF as indicated (bearing) (range 1. ALFA (air dispensed) 2. BRAVO (barrier) 3. CHARLIE (confusion) 4. DELTA (distraction) 5. FOXTROT (funnel dispersed) 6. HOTEL (helicopter dispensed) 7. SIERRA (seduction) 8. As previously directed).
EW42 SHELL CHAFF. Fire shell chaff (type from Table E) to cated (on bearing) (at range).	protect own unit or unit indi-
EW43	
EW44	
EW45 EMISSION PRECAUTIONS. Take precautionary m national instructions to deny interception of classific tromagentic and acoustic emissions by Potential In the area.	ed information on own elec-
EW46 SIMULATE UNDERWATER TELEPHONE (UWT) friendly submarine (or) using "Do not answer" p 1. Detach and simulate SSN-link procedure using "Do not answer" p	
EW47	

MTP 1(D), Vol. II

INTENTIONALLY BLANK

CHAPTER 21

EXERCISES

2100 General Signals

2100 GENEI	RAL SIGNALS
EX1	COMMENCE RUN () (type of run following DESIG). 1. From ahead 2. From astern 3. From port 4. From starboard 5. Overhead 6. To port 7. To starboard
EX2	EXERCISE AT (from Table X) (ship indicated or officer from Table P to conduct the exercise).
EX3	EXERCISE or EVENT is (type of exercise from Table X or letter and/or numerals following DESIG). 1. Abandoned 2. Being conducted 3. Cancelled 4. Completed 5. Postponed (until) 6. To be repeated now (or at) 7. To be resumed now (or at) 8. To cease now (or at) 9. To commence now (or at)
EX4	EXERCISE INDEPENDENTLY, (remain within range of this unit or unit indicated). 1. Radar 2. UHF 3. VHF 4. Visual signaling 5 miles

EX5 EXPLOSIVE SIGNAL. Fire _____ explosive signal charges.

EX6	OPERATE IN AREA (type of training or exercise from Table X to be conducted).
EX7	
EX8	RUN is 1. Completed 2. To be carried out as a dummy run 3. To be repeated 4. To cease now (or at) 5. To commence now (or at)
EX9	TACTICAL MANEUVERS by flaghoist are to commence now (or at).
EX10	TARGET. Take target in tow (or) (distance hundred yards target is to be astern). 1. Abandon target 2. Pick up target 3. Stream target sled 4. Transfer target to this unit or unit indicated 5. Veer target
EX11	TRIALS. Carry out trials or tests of equipment (at). 1. Antiaircraft battery 2. Close-range weapons 3. Guided missile battery 4. Main battery 5. Primary steering 6. Searchlights 7. Secondary battery 8. Secondary steering 9. Sirens/whistles 10. Smoke-making 11. Steering by main engines 12. Other equipment (from Table E, U, or Y)
EX12	

MTP 1(D), Vol. II

CHAPTER 22

GUNNERY AND MISSILES

2200

Ballistic Signals

			2201 2202	General Signals Naval Gunfire Su	pport
2200 BALLISTIC SIGI	NALS				
GM1					
GM2					
GM3BALLIST	IC WIND. Find th	e ballistic wind	at height o	of thousand feet	
GM4 BALLIST sand fee		_) is from	_at k	nots (at height of	_ thou-
GM5					
GM6					

2201 GENERAL SIGNALS

GM7 RANGE FOULED (by from Supplementary Tables).
GM8 CLEAR THE RANGE (or) from this unit or unit indicated (on bearing). 1. Line of fire
GM9 FIRING LIMIT BEARING(S) is (or are from to).
GM10 RANGE CLEAR.
GM11 MALFUNCTIONS. I have a 1. Hangfire 2. Loaded gun 3. Misfire 4. Missile hangfire on launcher 5. Missile misfire
GM12 BORES CLEAR. (expended rounds).
GM13 RAKE CODE. Code groups following this signal are from the Rake Code below and are intended for transmission by Morse or voice. Each shot is raked unless the mean point of impact of the salvo is requested. Numeral preceding the letters

Example: GM13—1—A—AM—M—N... The four shots of salvo 1 landed: over 50 yards, hit, short 50 yards, and short 100 yards.

indicates the salvo number.

RAKE CODE					
AM Hit					
S More than 1,000 yards short of target					
O More than 1,000 yards beyond target					
A Over 50 yards B Over 100 C Over 150 D Over 200 E Over 300 F Over 400 G Over 500 H Over 600 I Over 700 J Over 800 K Over 900 L Over 1,000	M Short 50 yards N Short 100 P Short 150 Q Short 200 R Short 300 T Short 400 U Short 500 V Short 600 W Short 700 X Short 800 Y Short 900 Z Short 1,000				

GM14	TARGET 1. Range is thousand yards 2. Identified — Ready to observe 3. Identified — I am able to spot for you and will pass reports on circuit or frequency indicated 4. Obscured 5. Destroyed
GM15	
GM16	
GM17	AMMUNITION (List A) (List B) fuzes. List B 1. Change to A. Impact/time 2. Reload with B. Proximity 3. Select
2202 NAVAL	GUNFIRE SUPPORT
GM18	
GM19	
GM20	FIRE into grid area
GM21	GRID REFERENCE for gunfire support is
	GUNFIRE SUPPORT. Commence the scheduled gunfire support for landing beach from Table Z).
	SPOTTER. Call spotter on frequency allocated (or frequency) and carry out naval gunfire support task allocated.
GM24	TARGET for gunfire support is 1. Buildings 2. Gun emplacements 3. Rail/locomotive 4. Road/bridge 5. Soft-skinned vehicles 6. Tanks in open ground 7. Troop concentration

MTP 1(D), Vol. II

INTENTIONALLY BLANK

MTP 1(D), Vol. II

CHAPTER 23

HARASSMENT

		2300	Shadowing, Marking, and Countermarking
		2301	Harassing and Hampering
2300 SHADO	OWING, MARKING, AND COUNTER	MARKING	
HA1	SHADOW, MARK, OR COUNTERMAING) (as indicated List B). List A 1. Shadow 2. Mark 3. Countermark	List B A. At close ra B. At distant r C. At optimun D. Covertly E. Overtly	inge range
HA2			
2301 HARAS	SSING AND HAMPERING		
HA3	HARASS OPPONENT (bearing	Prevention of OTC's Prevention of OPP Prevention	s policy and acting strictly in Collisions at Sea, unless other- onal Rules of the Road. remis' situation. n order to disturb operations on deck maneuvers (minimum range). aneuvers. at Sea.

HA4	HARASS OPPONENT (bearing) (distance) by use of weapons
	(List A) and sensors (List B) a	
	List A	List R
	Crew at battle stations	A. Turret/launcher aimed
	2. SSM	B. Turret/launcher not aimed
	3. SAM	C. Associated control radar
	Main battery	C. aimed but not activated
	Secondary battery	 D. Associated control radar aimed
	Other (from Table A)	and activated in tracking mode
		Associated control radar aimed
		and activated in acquisition mode
HA5	 Overfly target at low level (minim 	
	Overfly target with bomb doors o	
		pattern. Radar activated in tracking or acquisition
	mode.	adara
	4. Jam (from Table E) band ra 5. Jam (from Table E) commu	unications
	5. Jan (nom rable L) commo	inications.
HA6	HARASS SUBSURFACE CONTAC	CT by (List A) (using (List B)).
	List A	$\frac{1}{List}$ $\frac{1}{B}$
	 Make sudden and significant 	A. Noisemaker
	course alterations in	B. Torpedo decoy
	direction of contact.	C. UWT
	Make every effort short of	
	attack to induce the submarine	
	to surface.	
	3. Throw explosive charges	
	close to contact (but not	
	closer than yards).	
	 Change sonar transmission interval and carry out sonar 	
	in-contact procedure.	
	Activate equipment	
	(from List B or Table II)	

HA7		IONS or MOVEMENTS (by (List A)) (us-
	ing (List B)). List A 1. Maneuvering 2. Taking station on designated opponent's aircraft approach or glidepath 3. Laying smoke screen 4. Using cables or nets to foul propellers 5. Simulate exercise (from	 List B A. Explosive signal charges B. Pyrotechnics C. Searchlights D. UWT E. Use International Code of Signals F. Do not use International Code of Signals
	Table X) on opponent's MLA 6. Imaginative use of (from List B or Table U)	
HA8		
HA9		

MTP 1(D), Vol. II

INTENTIONALLY BLANK

CHAPTER 24

INTERDICTION AND EMBARGO OPERATIONS

2400 GENERAL SIGNALS

2400	GENERAL SI	GNALS	
IN1 .	2 3 2 5	List A 1. Critical contact of interest 2. Contact of interest 3. Potential violator vessel 4. Assumed cleared vessel 5. Cleared vessel	B. Cargo C. Tug
IN2 .	1 2 3	re directed to (track number/ve 1. Query 2. Board 3. Escort 4. Divert	essel name) for
IN3 .	1	List A	List A) via () (from List B). List B A. VHF B. Flashing light
IN4 .	1 2 3 4	arding party is 1. Onboard my vessel 2. Enroute to conduct boarding 3. Onboard potential violator 4. Returning from potential violator 5. In distress	
IN5 .	12	List A) (from List A) () (from List B). List B A. My boarding B. My boarding party

IN6	Boarding is 1. () percent completed 2. Not possible 3. Other
IN7	Vessel's (name/track number) cargo is 1. Arms/weapons 2. Asylum seekers 3. Chemicals 4. Crude oil 5. Foodstuffs 6. General cargo 7. Illegal drugs 8. In ballast 9. Liquified gas 10. Livestock 11. Medical supplies 12. People 13. Petroleum 14. Radioactive material 15. Toxic material 16. Vehicles 17. Other
IN8	Assume tracking/boarding responsibility for contact (name/track number).
IN9	Vessel (name/track number) is 1. Cleared to proceed 2. Diverted 3. Under my control 4. Arrested 5. Other
IN10	In my area I hold (number) unknown vessels.
IN11	
	My method of boarding will be 1. Boat 2. Helicopter 3. Other

METEOR-OLOGY ME

CHAPTER 25

METEOROLOGY

2500 General Signals

2500 GENERAL SIGNALS
ME1 CEILING is hundred feet.
ME2 CLOUD COVER is eighths (at hundred feet).
ME3 FOG from the OTC (or from). 1. Fog in sight bearing (or between bearings and) distance miles 2. Depth of fog in direction (or between bearings and) is miles
ME4 SEA STATE is 1. Calm 2. Choppy 3. Moderate swell 4. Heavy swell 5. Rough 6. Very rough
ME5
ME6 STORM WARNING. Storm or line squall of severity may be expected within hours. 1. Intense 2. Moderate 3. Violent
ME7 VISIBILITY is miles.
ME8 VISIBILITY is (on bearing) from OTC or unit indicated. 1. Deteriorating 2. Improving 3. Not changing
ME9 WEATHER REPORT. Make weather report (). 1. Encrypted 2. Forecast 3. In international code (FM) 4. In plain language 5. Of surface wind observation 6. Of upper wind at thousand feet
ME10 WIND SPEED AND DIRECTION. Wind speed is knots from direction

MTP 1(D), Vol. II

ME11	ENVIRONMENTAL DATA obtained by radiosonde launched in position (in latitude and longitude) at (date-time group). Radiosonde launch height above MSL is feet. Wind speed is knots. Evaporation duct height is feet. The radiosonde data are entered in groups at each significant level sequentially as level, height, pressure, temperature, and relative humidity, beginning with the first level above launch height. The first two figures in the group indicate the level, the following five figures indicate the level height in feet, the following five figures indicate the pressure in millibars (mb) with one decimal, and the following three figures indicate temperature in degrees Celcius with one decimal.
	For temperatures below zero, the group will have four figures and the first will be
	zero. The last three figures indicate relative humidity with one decimal.

Example: ME11—3215N—2030W—231230MAR—27 —50—13—01 00050 10090 256 772—02 00150 10000 252 443—03 00300 09860 264 320 . . . Radiosonde data obtained from a Meteo balloon launched in position 32°15'N 20°30'W at 231230 March from 27 feet above mean sea level, where wind speed is 15 knots and an evaporation duct of 50 feet is present, are as follows:

Level	Height (FT)	Pressure (MB)	Temperature (°C)	Relative Humidity (%)
01	50	1009.0	25.6	77.2
02	150	1000.0	25.2	44.3
03	300	986.0	26.4	32.0

ME12

ME13

ME14

MINE Warfare MW



MTP 1(D), Vol. II

CHAPTER 26

MINE WARFARE

2600	Safety Measures
2601	Mines/Minefields
2602	Minelaying
2603	Cleared Channel/Area
2604	Leadthrough Signals
2605	Track Policy
2606	Dan Laying/Dan Running
2607	Minesweeping
2608	Minehunting/Mine Disposal
2609	Tasking and Reporting

2600 SAFETY MEASURES

MW 1		
MW 2	DECK. All men are to remain on deck.	
MW 3	DEGAUSSING. Use degaussing equipment.	
MW 4		
MW 5	WATCH. Set mine watch.	
2601 MINES/I	MINEFIELDS	
MW 6	AIRCRAFT MINES. Object was dropped by aircraft in position indicated. 1. Identified as a parachute mine 2. Believed to be a mine	
MW 7	CUT. I have cut a mine (type Table M) adrift (in position indicated).	
	DANGEROUS AREA. Area is dangerous on account of mines (type from Table M) and enclosed in a circle of miles radius with center in position indicated.	

MW 9 ENEMY MINEFIELD POSITION. Enemy minefield is bounded by lines joining positions indicated.
MW 10
MW 11 MINE is (in position indicated). 1. Drifting 2. Exploded 3. Just awash 4. Neutralized 5. Of type from Table M 6. Sinking slowly
MW 12 MINES (type from Table M) have been in position indicated (number of mines). 1. Found 2. Reported
MW 13
MW 14 MINEFIELD FIRING. Controlled minefield number is about to be fired (or was fired at).
MW 15 MINEFIELD SETTING. All controlled minefields are set to 1. Active 2. Automatic, and are dangerous to friendly ships 3. Safe
MW 16
MW 17
MW 18 OWN MINEFIELD'S POSITION. This unit or unit indicated established a minefield. 1. Line number is between positions indicated. 2. Corners of the area mined are at positions indicated.
MW 19
MW 20

2602 MINELAYING

MW 21	
MW 22	 LAY MINES as previously ordered (or) on arrival at position where laying is to commence (or in position indicated). 1. Employing the spread line method. 2. In a continuous line. A single line is to be laid unless otherwise ordered. 3. In groups (number per group, each group hundred yards apart). A single line is to be laid unless otherwise ordered. 4. In parallel lines (number per line), lines yards apart. 5. Irregularly, some single, some in groups (line length is hundreds of yards in direction). A single line is to be laid unless otherwise ordered. 6. By ships in column, laying from the rear ships. 7. By ships in single line abreast.
MW 23	LEFT TO LAY. There are mines left to lay.
MW 24	MINELAYING 1. Arming delays are to be set at (date-time group). 2. Commence mining: plan may be indicated. 3. All mine rails (or number) are jammed. 4. Jettison all mines. (Mines are to be made) A. Active B. Safe 5. Lay mines (type from Table M) (from position or in area indicated). (Plan number may be added.) 6. Unit indicated launched first mine in the line seconds after time zero. 7. You are assigned to line number (DESIG unit indicated in tactical sequence). 8. Line of mines bears length hundred yards form position indicated. 9. Use mine launching interval of seconds (in line number). 10. Number of mines (and obstructors if applicable) in each line (or line number) is 11. Fit mines. 12. Setting of mine depth (or) is to be feet. A. Plummet B. Obstructor 13. Lay mines hundred yards apart in each line (or in line number). 14. Spacing of lines is to be hundred yards (between line number). 15. Cease mining (at).
MW 25	MINELAYING REPORT 1. OPTASK mining number. 2. Number of mines correctly laid 3. Number of mines jettisoned 4. LRNs of jettisoned mines (and depths). 5. LRNs of unlaid mines. 6. LRNs of incorrectly laid mines (and depths). 7. Limits of minefield 8. Limits of jettisoned area 9. Time of completion 10. Position of first mine in mine line and LRN (air laid). 11. Position of last mine in mine line and LRN (air laid).

MW 26
MW 27
MW 28
MW 29
2603 CLEARED CHANNEL/AREA
MW 30 AREA. The area to be swept/hunted is (or). 1. An area of width hundred yards, the centerline of which lies between positions indicated 2. Area/channel number/letter 3. Extend area to be swept in direction from position (for miles)
MW 31
MW 32 BUOY BUOY
MW 33
MW 34 CHANNEL/AREA is clear of mines (or). NEGAT preceding means "Channel/ area is not clear of mines." 1. Has been searched 2. Is swept/hunted
MW 35
MW 36
MW 37 SWEPT CHANNEL. MCM vessels are approaching entrance (or) of swept channel. 1. End
MW 38
MW 39

2604 LEADTHROUGH SIGNALS

- a. This article provides the special signals used by lead ship and shore establishments in a leadthrough operation. When using flashing light, guidance signals are to be flashed continuously until RRRR is received. When a numeral group follows any letters, the whole group (e.g., XET270) will be flashed repetitively until RRRR is received. Leadthrough signals are normally only signaled between the guiding vessel and the leading vessel of the group being guided.
- b. These signal groups are UNCLASSIFIED and are listed in ATP 2, Vol. II, Naval Control of Shipping Manual, Guide to Masters.

XAR	Make anchor(s) ready for letting go. 1. One 2. Both	
XAS (TACK) (TACK)	Anchor 1. As previously directed 2. In position (at) 3. Be ready to weigh anchor (at) 4. Shorten cable in to short stay (by) 5. Use both bower anchors 6. Drop second anchor under foot 7. As convenient	
XAV	Let go anchor.	
XAW ()	Weigh anchor (at).	
XAX	My anchor is 1. Aweigh 2. Foul 3. Clear	
XCK	Form single column.	

XDY	Maintain radio silence (including handheld systems).
XEA	Maintain silence on all electronic emitters. (This includes external and internal radio systems, radars, echo sounders, doppler logs, etc.) 1. Total 2. Exempt convoy ops/admin VHF
XEC TACK ()	Set watch on 1. VHF channel (at) 2. Frequency (at)
XED	Use visual signals only.
XEQ	Unable to communicate by flashing light.
XES	Base course is
XET	Adjust base course to (May only be used for adjustments up to 10° .)
XEW	Adjust course so that I bear (degrees true to you).
XEX (TACK)	Prepare to alter course by wheeling to (at).
XHA	Energize degaussing equipment.
XHB	Switch off degaussing equipment.
XHG	Ships are to be hundred yards apart.
XHD	Distance between first unit to be led and lead-through vessel (LTV) is to be hundred yards.
XHZ	Submarine transit will take place 1. On the surface 2. At periscope depth 3. Dived at meters depth

XIA (TACK)	Exercise is 1. To commence (at) 2. Completed 3. Cancelled.
XIX	I have ceased to lead you.
XIY	I am approaching the end of the channel.
XIZ TACK	I am yards off the centerline to the 1. Right 2. Left
XJA TACK	You are yards off the centerline to the 1. Right 2. Left
XJB TACK	You are yards off the centerline to the 1. North 2. South 3. East 4. West
XJC (TACK) (TACK)	Resume lead through at (position) (latitude/longitude) at (time). NOT RELEASABLE
XJD (TACK) (TACK)	Discontinue lead through at (position) (latitude/longitude) at (time). NOT RELEASABLE
XJE	I am on the centerline.
XJF	Follow your column leader.
XJG	Follow mine countermeasures vessel (MCMV).

XJH ([c/s])	Follow me (or [call sign]).
XJI	Follow in the wake of the next ahead.
XJJ	Follow in the wake of mine countermeasures vessel (MCMV).
XJK ([c/s])	Follow in my wake (or [call sign]).
XJL	You have left the channel.
XJM	Follow next ahead, adjusting your course to pass over the same ground.
XJN	Follow mine countermeasures vessel (MCMV), adjusting your course to pass over the same ground.
XJO ([c/s])	Follow me (or [call sign]), adjusting your course to pass over the same ground.
XJP	Follow your column leader, adjusting your course to pass over the same ground.
XJQ	Follow in the wake of your column leader.
XJR	Request lead through.
XJS	I am ready to be led through.
XJT ()	I will lead you (or units indicated) through the channel.
XJU	I cannot/can no longer lead you through the channel.
XJV	Number of units to be led through is (Maximum of three per leadthrough vessel (LTV) and optimum of one).

XJW	I am approaching entrance to the channel.
XJX (TACK) (TACK)	I will be at (position) (latitude/longitude) at (time). NOT RELEASABLE
XJY (TACK) (TACK)	You (or ship indicated) are to be at (position) (latitude/longitude) at (time). NOT RELEASABLE
XJZ (TACK) (c/s)	Report time of entering and leaving channel of 1. Your ship 2. First ship in column 2. Last ship in column 4. Call sign
XKM	I am resuming station.
XMH	Indicate your call sign.
XMI	Your call sign is
XMJ	My call sign is
XMK	I cannot see you.
XML	I can see you. You are identified.
XMP	Indicate your position by flashing light/searchlight.
XMQ	First unit of column to be led is to show three white lights displaced vertically at the bow.
XMR	Leadthrough vessel (LTV) is showing white light over red.

XMS	Switch off lead through identification lights.
XNU	Disregard my movements.
XNV	Your movements are not understood.
XQE (TACK)	I am passing position (at).
XQJ	You are clear of the minefield, Proceed as previously directed.
XRF ()	Maintain radar silence (on). 1. 3 cm (I) 2. 10 cm (E/F)
XSA ([c/s])	I am (or [call sign] is) entering the channel.
XSB ([c/s])	You have (or [call sign] has) entered the channel.
XSC	You are the centerline. 1. Right of 2. Left of 3. On
XSD	You have a tendency toward of the centerline. 1. Right 2. Left
XWD	My speed is knots.
XWI	What is your minimum speed under present conditions?
XWF	My minimum speed is knots.
XWL	Stop your ship. Remain in the channel.
XWM	Speed during the lead through will be knots
Pennant 3 (TACK) (TACK)	Mine sighted (bearing) (range yards).

c. When either the tactical situation or COMSEC policy precludes the overt use of ships names or international call signs on uncovered VHF/UHF voice circuits, then the following brevity code words should be used:

UNIT	CALL SIGN	REMARKS
LTV	GUIDEDOG	If more than one LTV is operating in the same area, suffix ALFA/BRAVO/CHARLIE, etc., should be used.
VTM	SHEEP	If more than one LTV is operating in the same area, then a suffix ALFA/BRAVO/CHARLIE, etc., should be added to the call sign to match the Guidedog suffix.
		If more than one vessel is being led through, then a suffix ONE/TWO/THREE, etc., should be added to match the respective Guidedog suffix.

d. There is no special NEGAT flag in the International Code of Flags. If visual INTERCO signals have to be used then FLAG N followed by Tack is to be used for the purpose of expressing the converse meaning of a signal. However, if using voice INTERCO procedure, the word Tack must not be used: FLAG N will be substituted by the proword NEGAT.

Example: N - XJS - Meaning I am not ready to be lead through.

2605 TRACK POLICY

MW 40			PORT/STBD ADJUST SWEEP. (Or) (PORT/STBD may be used to indicate sides.) 1. Leave sweep fully veered and unchanged 2. Recover sweep 3. Recover sweep and stream opposite side 4. Recover wire sweep and stream influence sweep 5. Shorten in as required 6. Stream and veer sweep 7. Veer sweep to full length or length indicated (meters)
MW 41			
MW 42			
MW 43			RUN COMMENCED. Entered track (at).
MW 44			RUN COMPLETED. Effective (or) run has been completed in track (at). 1. Partially effective 2. Completely ineffective
MW 45			RUN NUMBER. Present run is last of this task (or). 1. Run just completed by this unit or unit indicated in track is allocated run number. 2. Number of runs in track will be
MW 46		•	LEAVING CHANNEL channel. 1. Report when leaving 2. I have left
MW 47	٠		TRACK. 1. My next track is 2. My present track is 3. Report when entering track 4. Report when leaving track 5. Request next track assignment 6. Resweep this track 7. Take track 8. Upon leaving present track, clear area and repair defects 9. Upon leaving present track, proceed as indicated in signal following 10. What is your present track 11. Your next track is
MW 48	-		TRACK SEQUENCE/SEPARATION. Tracks are to be swept in succession at 2,000 yards interval (or using) in following sequence (track designators separated by TACK) by all ships of this unit (or ship indicated). Ships are to navigate independently. 1. Lateral separation yards 2. Longitudinal separation yards
MW 49			

2606 DAN LAYING/DAN RUNNING

MW 50	 DANBUOY (number following DESIG) is/has 1. Adrift 12. Sunk 2. Broken stave 13. The first 3. Cut 14. The last 4. Datum dan 15. To be cut 5. Deep danbuoy 16. To be lifted 6. In my sweep 17. To be passed yards 7. Lifted 18. To be pointed 8. Lying flat 19. To be recovered 9. Not watching 20. To be repaired 10. Out of position 21. Unlit 11. Scope of yards 22. Without from Table Y
MW 51	 DANBUOY (number following DESIG) is to be laid with ($List A$) (positioned with reference to ($List B$)). List A
MW 52	 DANBUOY. Let go danbuoy (or). 1. Short scope buoy
MW 53	 DANBUOY POSITION INDICATION. 1. Bearing of danbuoy (number following DESIG) is degrees from this unit, unit indicated, or danbuoy (number following DESIG). (Distance yards.) 2. Check position of danbuoy (number following DESIG). 3. Danbuoy (number following DESIG) is degrees yards from correct position. 4. Danbuoy (number following DESIG) is within 25 yards of my bow.
MW 54	
MW 55	 DANLINE. 1. Danbuoy (number following DESIG) is yards further from the center of the channel than the mean danline. 2. Danbuoy (number following DESIG) is yards nearer to the center of the channel than the mean danline. 3. Following danbuoy (numbers following DESIG) are on the mean danline. 4. Leave line indicated down. 5. Line is yards from channel center. 6. Straighten the line. 7. Straighten the line next track.

MW 56	DAN RANGE. Range on passing danbuoy number following DESIG is
	yards.
MW 57	DAN RANGE. Report is to be made by ship indicated of range to danbuoy (number following DESIG) on passing.
MW 58	DAN RUNNING. Take up dan running duties 1. Keeping abreast of ship indicated 2. Keeping astern of ship indicated and be prepared to lay danbuoys if mines are cut 3. Passing yards from the line of buoys off the edge of the channel 4. Passing yards from the line of buoys off the opposite edge of the channel
MW 59	
MW 60	
MW 61	LAY DANBUOYS. Ship indicated lay 1. Danbuoys (a) Number of dans (b) Bearing from datum danbuoy (c) Interval between dans miles 2. Datum dan (in position) 3. Line of dans (a) Number of dans (b) Distance from center of channel hundred yards (c) First dan abreast channel point (b) Interval between dans miles from dan to dan (e) Direction of line from dan to dan (f) Position of line relative to channel (N, S, E, W)
MW 62	
MW 63	
MW 64	

2607 MINESWEEPING

MW 65 ACC	OUSTIC GEAR OPERATION	N. Operate	(List A) gear in (List	В
mod	de with standard settings (or	with settings	(List C)).	
	List A	List B	List C 31. Build up seconds	
	 Audio frequency 	 A. Continuous 	Build up seconds	
	hammer	B. Modulated	Build up to perce	ent
	Cavitating	C. Pulsed	32. Build up to perce of maximum output	
	Combination acoustic	D. Warbled	33. Cycle time second 34. Decay and low	ds
	4. Explosive		34. Decay and low	
	Low frequency (dis-		seconds	
	placer with long		35. High frequency, lo	ow
	eccentric)		frequency	
	6. Low frequency (dis-		36. Highseconds	
	placer with short		37. Interval between individ	ual
	eccentric)		charges seconds	
	7. Oscillator		interval between initial	
	8. Pipe noisemaker		charges of each compl	
	9. Very low frequency		set seconds	
	10 from Table Y		38. Modulated cycle build	
			uphigh	
			low (seconds)	
			39. ON seconds.	
			39. ON seconds, OFF seconds	
E 1 M	W (5 1 D 20 (4 20	0 1 1 6	equency hammer gear in modu-	
Example: 1117			ild up 6 seconds, high 4 seconds,	
MANAGE ADM	MINIC Cyronna ara ta ba arma	dwith (Liet	t 1) outtors as indicated (List F	٥١
WW 00 ARI		a with (<i>List</i>	(List E	١).
	List A		List B	
	1. Anti-obstructor		ously directed	
	2. Explosive	B. Heavy ar	ming	
	3. Mark following DESIG	C. Light arm	ning _.	
	4. Static	D. Medium		
		E. To a tota	l of	
MW 67 CAL	LIBRATE. Proceed to calibra 1. Kite/depressor 2. Otters for deep sweeping 3. Otters for normal sweeping	te		
	o. Ottoro for frontial ewooping			
MW 68 CHA	ANGE GEAR (US timer equip	ment). Use cam	numberfollowing DESI	G.
MW 69 CUT	T/SLIP. Cut sweep (or). with danbuoy		
M\\\/ 70 DIA	PHRAGM Use diaphragm o	f inches of	diameter	
IVIVV / U I JIA	ETHACIVI. USB GIADHIAGHI (1		Manielei	

	PRESSOR/KITE/OTTER. Adjust to same depth as in previous track (or). DRT/STBD may be added to indicate side of sweep.) 1. Adjust gear to give swept depth of meters for speed through the water. 2. Adjust gear to give swept depth of meters for normal sweeping speed. 3. Raise depressor/kite.
	PRESSOR/KITE/OTTER (PORT/STBD may be added to indicate side sweep.) 1. Your depressor/kite is surfacing 2. Your otter is surfacing 3. Spread of your sweep is yards
MW 73 DU	1. Center ship (when there is more than one center ship, call signs are to be used to indicate sequence from left to right) 2. Mine disposal ship 3. Mine recovery ship 4. Slip ship 5. Winch ship
MW 74 EN	IERGIZE (or) sweeps. 1. De-energize Note: Red and black flags are to be used as directed in ATP 24.
MW 75 EX	PLOSIVE SWEEP. Fire explosive sweep salvoes at intervals of 1 minutes 2 hundred yards
MW 76	
MW 77	
MW 78 FL0	OAT/DIVERTER is to carry light.
pul ond	AGNETIC GEAR OPERATION. Operate (List A) gear, with (List B) se sequence, and (List C) wave form; ON seconds, OFF seconds, cycle time seconds, at hundred amperes sweep current. List A

MW 80		MECHANICAL SWEEP ORDER. Stream mechanical sweep in accordance with task order (or use). (PORT or STBD to be added if only one side is to be streamed or if the sweeps are veered to a different length.) (Type of sweep to be indicated from Table Y.) 1 meters of float wire. 2 meters of kite wire. 3 meters of sweep wire. 4. Float pendants and depressor tow wire lengths to sweep to a depth of meters at a speed of through the water.
MW 81		
MW 82		OBSTRUCTION. Strain indicates obstruction being dragged in sweep (or). 1. Haul out of formation and clear sweep.
MW 83		OVERLAP 1. Maintain overlap of tens of yards. 2. Maintain true overlap of tens of yards. 3. You are maintaining an overlap that is tens of yards less than ordered overlap. 4. You are maintaining an overlap that is tens of yards more than ordered overlap.
MW 84		PASSING IN THE TRACK. Ships are to de-energize sweeps when withinhundred yards of each other.
MW 85		PULSING. Carry out static pulsing at minute intervals.
MW 86		
MW 87		
MW 88		SIGHT SWEEPS (and/or). 1. Slip 2. Close in on guide to turning distance and slip 3. On completion of present track, sight sweeps and slip independently
MW 89		SWEEP with ship indicated (or). 1. Over position where sweep parted (or position indicated) 2. Round buoy number (to radius of yards)
MW 90		SWEEP DEPTH. Sweep running depth is to be set/adjusted to meters for sweep indicated (Table Y) (at speed).
MW 91		SWEEP PARAMETERS. Characteristic actuation width for sweep is tens of yards and characteristic actuation probability is percent. 1. Acoustic 2. Combination acoustic-magnetic. 3. Magnetic

MW 92	SWEPT PATH of formation is estimated to be hundred yards.
MW 93	TURNED. I am being turned by sweep wire ("DOGGO").
MW 94	
MW 95	
MW 96	
MW 97	
MW 98	
MW 99	
2608 MINEH	JNTING
MW 100	BOTTOM CONDITIONS in this area for minehunting are 1. Average 2. Good 3. Poor
MW 101	GROUND MINE (in position) (or bearing range yards from this ship or ship indicated) will be countermined at
MW 102	LINE OF MINES is bearing from this ship or ship indicated (or from position) (number of mines in line is). 1. Detected 2. Revealed 3. Suspected
MW 103	MARK mines cut with floating dan.
MW 104	
MW 105	MINE CONTACT (in position indicated) is to be 1. Allocated MRN following DESIG 2. Classified as possible mine (or from Table M) 3. Destroyed 4. Identified as from Table M 5. Investigated by divers (or ROV following DESIG) 6. Investigated by trained Marine Mammals 7. Left for subsequent recovery and/or investigation 8. Located 9. Marked by from Table Y 10. Neutralized 11. Recovered 12. Removed from channel 13. Reported

MW 106	MINE DANGER. Mines in area are dangerous to divers. No diving is to take place. (Mine disposal weapons and markers are NOT to be dropped closer than yards from minelike contacts.)
MW 107	MINEHUNTER PROTECTION. Ships conduct continuous acoustic sweep with (from Table Y) while hunting.
MW 108	
MW 109	MINEHUNTING. Underway minehunting is not possible due to 1. Bottom conditions 2. Weather
MW 110	MINEHUNTING TASK ALLOCATION. Ship indicated is to search 1. Between channel points and following DESIG (or position indicated). 2. For mine type from Table M (reported in position) (or allocated MRN). 3. In area indicated. 4. Round buoy number (or position) to radius of yards.
MW 111	MINEHUNTING TASK SITUATION REPORT. State of task is 1percent complete. 2. Channel is clear of mines from to (or position indicated) 3. Channel is mined from to (or position indicated) 4. Channel is mined (position of MRN is).
MW 112	
MW 113	
MW 114	MINEHUNTING TRACKS. Conduct minehunting on track designator following DESIG (or use tracks to cover the channel). (Track spacing is yards.)
MW 115	MINE REFERENCE NUMBER (MRN) following DESIG is allocated to 1. Last mine report 2. Last mine swept/hunted (by ships indicated)
MW 116	MINE SWEPT/HUNTED (or) (bearing range yards from this or unit indicated) (or in position) (bearing from reference point range yards.) 1. Sighted
MW 117	OBSTRUCTOR is/has been 1. Bouquet 2. Chain mooring 3. Cut in position 4. Explosive cutter 5. Grapnel 6. Static cutter

MW 118	
MW 119	
	RECOVER MCM equipment (or from Table Y) (or personnel from Table P).
	SONAR MCM SEARCH PROCEDURE. Conduct sonar search by method in channel or area coordinates (or codename following DESIG). 1. Attrition 2. Breakthrough 3. Clearing 4. Exploratory
MW 122	
MW 123	
MW 124 I	MCM OPERATIONS DIRECTIONS. MCMOPDIR number A. 1. Time to commence task (stop time may be added). 2. MCM units or elements detailed for the operation. (Optional if these units/elements are action addressees.) 3. Covering force 4. Units detailed for logistic support. B. 1. Area, routes or parts of routes where MCMOPS are to be carried out. 2. Priorities (anchorage, deployment areas, routes, etc.) C. 1. MCM directive in force 2. Type of MCM operation D. Intelligence (estimate of threat) E. Shipping management (e.g., convoy schedule and leadthrough policy) F. 1. Estimate of the situation 2. Intentions G. Report to be sent and when. Additional information required. H. Movements on completion I. Effort required: 1. Exploratory operations: confidence level (CL) and maximum acceptable number of mines (t). 2. Clearance hunting/mechanical sweeping: percentage clearance 3. Attrition influence/short-term operations: (plain text) X. Miscellaneous Y. References Z. Acknowledge

2609 TASKING AND REPORTING

MW 125	TASK ORDER. Task order number Carry out elements of tasks ordered below:
	A. Units (not necessary when addressed unit is to perform task) 1. Discretion of CTU
	Call sign of unit(s) to carry out task
	3 number of units to be on task
	B. Time to commence
	1. Immediately
	Upon completion of present task
	Upon completion of off-task period
	4(DTG)
	5. Complete prior to passenge of convoy
	Upon completion of repairs To be signaled
	8. As soon as weather permits
	9. DESIG
	C. Area or channel
	1. Route number
	2. Channel number
	3. Anchorage name
	Between points
	5. Position within 3 miles of position
	6. Within 3 miles of junction on Q-routes
	7. Harbor name
	8. DESIG
	D. Type of MCM operations
	1(use ATP-24 standard letter suffix/two-digit stage number)
	Digit code group from appropriate OPORD Deploying
	3. Danlaying
	4. Mine recovery 5. DESIG
	E. Mine types that may be encountered
	1 (from ATP 24 mine index)
	2. As indicated in OPORD
	3. No intelligence available
	4. DESIG
	F. Convoy information — Leadthrough order
	 Convoy title, name(s) of independent(s) or task organization number.
	2. Arrival position
	3. ETA (Zulu time)
	4Lead ship (number of convoy ships).
	5. Leadthrough channel.
	6. Stop convoy or independent unit until required clearance is obtained (two figures
	indicate required percentage where different from standard).
	 Do not lead through but pass required formations for transit of channel. A. Call sign Convoy Commodore/OTC naval force on board (name/call
	sign of ship).
	B. Call signal convoy vice commodore/designated substitute of OTC on
	board (name/call sign of ship)
	9. Ship data
	A. Name type IRCS maneuvering/navigation limitations .
	A. Name type IRCS maneuvering/navigation limitations B. Name type IRCS maneuvering/navigation limitations
	C. Etc.
	10. Establish contact on (name HF/UHF/VHF communications) at (DTG).
	11. DESIG
	SIGNAL MW 125 CONTINUES ON NEXT PAGE

G.	Communication instructions for MCI (<i>List B</i>).	M fo	rces	(List A) and for unit(s) to be guided
	List A			List B
	As indicated in COMPLAN	1.	As indic	ated in COMPLAN
	2. Line	2.	Line	a = =
	2 11115	2		
	4. VHF	4.	VHF	
	5. HF	5.	HF	
	5. HF 6. DESIG	6.	DESIG	_
Н.	MCM reports		_	
	1. MINEREP — report each mine s	wep	t/hunted	
	2. MCMSITREP — daily by time inc	dicat	ed	
	3. Start/stop time			
	Obstacle report			
	5. DESIG			
I.	Movements upon completion			
	Return to port			
	Return to support ship			
	3. Anchor (in position)			
	4. Commence off-task period (at))	
	New task to follow			
	6. If mine is swept/hunted, commer	nce o	clearance	operations
	7. Stop present task at			
	8. Commence task number (c	or D7	ΓG)	
	9. DESIG			
J.	Effort requested			
	1 runs per track			
	2 runs on track			
	3. AMRAP (as many runs as possib	ole)		
	4 percentage coverage			
	5 percentage clearance	4!		
	number of units on task connumber of tracks	ntint	iousiy	
	7 number of tracks	_		
	8. Track spacing tens of yards	S		
V	9. DESIG			
ĸ.	Coordination orders			
	1. Coordinating authority			
	 Keep clear of convoy Hunters keep clear of sweepers 			
	4. Sweepers keep clear of hunters			
	5. Sweepers keep clear of hunters	havi	na divere	in the water
	6. In accordance with ATP 24	IIavi	ilg uiveis	in the water
	7. DESIG			
N	Danlaying — lay danbuoys			
IN.	Number of danbuoys			
	2 Position (or first dan abreau	st ch	annel noi	int)
	 Position (or first dan abreas Offset tens of yards (A nlı	ıs B mini	us)
	4. Interval between dans hund	dred	s of vards	3
	5. Direction between the dans and	lette	ered	-
	6. Lift danbuoy(s) in position ()		
	7. Are laid	- /		
	8. From Table Y			
	Discretion of call sign			
	SIGNAL MW 125 CONTINUE	ട റ	N NFX	T PAGE
,		\sim	. 4 . 4 / .	

U.	Mechanical
	Single oropesa
	2. Double oropesa
	3 meters depth setting
	4. Not be armed
	5. To be armed (List A) with cutters (List B)
	List A List B
	1. Light A. Explosive
	2. Medium B. Static
	3. Heavy C. Type
١/	Length of sweep wire meters Acoustic
٧.	Low-frequency sweep
	Low-frequency sweep Audio-frequency sweep
	3 inch diaphragm 4. inch crankshaft
	5. Continuous running
	6 Modulating — build up maximum minimum seconds
	6. Modulating — build up maximum minimum seconds 7. Alternating ships LF/AF
	8. As indicated in OPORD
W.	Magnetic
	(a) Wave Form
	1. Square
	2. One-half sinusoidal
	3. Sinusoidal
	One and one-half sinusoidal
	5. One-half triangular
	6. Triangular
	7. One and one-half triangular
	8. Trapezoidal
	(b) Change gear
	 4 seconds 8 seconds
	3. 12 seconds
	4. 16 seconds
	5. 20 seconds
	6. 24 seconds
	7. ZOS
	(c) seconds on seconds off
	(d) Pulsing sequence
	(e) Amperage For R For R For R
	1. Maximum
	2 AMPS
	Safe current against mine ofnT
	Miscellaneous information following DESIG
	References following DESIG
Z.	Acknowledge (if required)

MW 126	BUOY REPORT (MCMR 1, 2, 3).	Ship indicated has laid/checked	d/discovered
	1. In accordance with task order nu 2. Number of danbuoys 3. Position (or first buoy abrea 4. Offset tens of yards (or first buoys and let or compared to the process of	ast channel point) A plus, B minus) ndreds of yards tered	
MW 127	START/STOP TIME (MCMR 10). To to (List B) at List A 1. Will start at (DTG) 2. Has started (DTG) 3. Has stopped (DTG) 4. Has been suspended (DTG) 5. Has resumed (DTG) 6. Will resume at (DTG) 7. Will be completed at (DTG)	List B A. Sea state B. Visibility C. Breakdown of D. In accordance with task order number () or DTG E. Off task period	_ (<i>List A</i>) due

MW 128	MINE DETECTION/EXPLOSION REPORT
	1. Mine, MRN
	A. Swept
	B. Hunted
	C. Visual observed
	D. Exploded
	2. DTG (of the event)
	3. Mine type (from ATP 24 mine index)
	Position (geographic)
	5. Location relative bearing and range to ship/helicopter
	Course and speed of name/number of ship/helicopter
	7. LRN
	8. Status
	A. Located (confidence 1 to 5)
	B. Married to sinker
	C. Identified by divers
	D. Identified by ROV/underwater vehicle
	E. Disposed of by
	1. Neutralization
	2. Render safe
	3. Countermining
	4. Recovery
	5. Removal
	F. Sinker removed
	G. Sinker in position
	H. Sinker at depth(meters)
	J. Mine case at depth (meters)
	K. Destroyed by sweep (Table Y)
	L. Destroyed by gunfire and exploded
	M. Destroyed by gunfire and sunk in position
	N. Destroyed and exploded with charge by divers
	9. DESIG
	· · · · · · · · · · · · · · · · · · ·
MW 129	MCM OPDEF (MCM OPERATIONAL DEFECTS) (MCMR 13A, 13B, 42)
	1. Call sign(s) of unit(s) concerned
	2. Position
	3. ETA support ship/base
	4. Defective equipment (from Table E, P, U or Y)
	5. Repairs can be effected by ship's crew
	6. Non-operational
	7. Equipment (from Table E, P, U or Y) operating at reduced efficiency
	8. Request divers on arrival
	9. Request replacement on arrival of damaged/defective equipment (from Table E,
	P, U, or Y)
	10. Request replacement on arrival of lost (from Table Y)
	11. Request base assistance on arrival
	12. Estimated time of back on task is
	13. Rectified time of back on task is
	14. Remarks following DESIG
	11. Normand following DEGIO

	REP. Task order number/sequence number
A. Ch	nannel by channel, area by area, route by route, port by port MCMSITREP.
	Note: Paragraph A to be repeated for each channel, area, route, or
	port or part of channel, area, route, or port.
1.	Channel, area, route, or port (or part of channel, area, route, or port)
	a. Type(s) and time(s) of task(s) completed
	b. Type(s) and time(s) of commencement of task(s) in operation
	c. Percentage of clearance achieved
	d. Percentage coverage achieved
	e. Total number of runs achieved
	f. Intentions about type(s) of task(s) and times to commence
2	g. Estimated time(s) of completion of task(s) Mines/obstacles swept, hunted, or identified since last MCMSITREP. Read in columns
۷.	MRN/type (from Mine Index in ATP 24)/DTG/status/position
	a. DESIG
3	Contact marker
3.	a. Position of the marker(s)
	b. Direction(s) and distance(s) in meters of the contact(s) from the marker(s)
	c. DTG(s) of marker(s) placed
	d. Description of markers
	e. DESIG
4.	Buoyage
	a. Position of buoy(s)
	b. Description of buoy(s)
	c. DESIG
5.	Expected mine risk (high, medium, low, DESIG)
	a. At time of MCMSITREP
	b. After next 12 hours
	c. After next 24 hours
	d. At(DTG)
_	e. DESIG
6.	Minehunting conditions
	a. Position related to data below
	b. DTG of observation
	c. Bottom type (mine hunters use Table 5-1 of ATP 24, clearance diving team
	use plain language)
	d. Bottom composition e. Clutter density
	f NOMBO density (NOMBOs per square mile)
	f. NOMBO density (NOMBOs per square mile) g. MILEC density (MILECs per square mile)
	h. Underwater visibility (meters) (1 or 2/horizontal/vertical) where 1 stands for
	human eye and 2 for ROV
	j. Current direction speed (knots)
	k. Reverberation level (high, medium, low)
	I. Area suitable for minehunting (yes, partly (percent of surface), no)
	m. Estimated diving time per 24 hours
	n. DESIG
SIC	GNAL MW 130 CONTINUES ON NEXT PAGE

•	 Additional information for risk evaluation a. Number of sweepers operating in the channel, area, route, or port
	b. Task cycle of sweepers
	c. Aggregate actuated width against mine types to be countered
	d. Actual navigation error/standard deviation error/CEP of sweepers
	e. Sweeping speed
	f. Track distance (D) of sweepers number of tracks (N)
	g. Runs per track (J) achieved
	h. Number of hunters operating in the channel, area, route, or port
	j. Task cycle of hunters
	k. Actual navigation error/standard deviation navigation error/CEP of hunters
	Effective hunting speed m. Track distance (D) of hunters number of tracks (N)
	n. Estimated mine density (mines per square mile)
	p. DESIG
В. С	Operational status of MCMV/support vessel
	1. Fully operational (FOP)
2	2. Partly operational (POP) Read in columns:
_	Name of unit/detect/estimate DTG becoming POP/FOP
	3. DESIG
	_ogistic situation 1. Remaining provisions (percent), fuel (percent), water (percent),
	ammunition (percent), breathing gas (percent), CO2 scrubber
	(percent) (percent), breating gas (percent), GGZ scrubber
2	2. Number of remaining mine disposal weapons/charges
	3. Logistic requirements
	4. DESIG
	Additional information (e.g., indication of new mine types, use of obstructors,
C	casualties, etc.)
MW 131 RELIEF F	
1. T	ask order number
2. N	Number of runs on track (A plus, B minus) tens of yards
3. I	rack spacing tens of yards Number of mines disposed of, MRN, position
4. N	Number of mines disposed of, MRN, position
6. N	Minelike contact(s) identified as nonmine in position(s)
	Minelike contact(s) located as possible mine and not identified in position(s)
	Contact(s) classified as nonmine in position(s) and identified as
	A. Rock
	B. Drum
	C. Sinker
	D. Wreck
	Bottom conditions (ATP 24) Remarks following DESIG
10. 1	ternans following besto
MANA TACK OV	/CLE to be used
MW 132 TASK CY	
	At your discretion (or) on, off
	All units continuously on task
	percentage on task
	<u> </u>
MW 133 ALL TAS	KS are now (or at).
	To cease
2. T	o be resumed

MW 134	STOP PRESENT TASK and proceed as indicated. 1. To off-task period, resume present task at () or end of off-task period 2. To off-task period, commence task number at end of off-task period 3. To off-task period, instructions or new task to follow 4. Commence as soon as possible task order number 5. To anchorage 6. To call sign 7. To port 8. As previously directed (or ordered by) 9. DESIG
MW 135	DIVING INCIDENT 1. Recompression required 2. PIM 3. ETA
MW 136	ANTILANDING OBSTRUCTION, located in position 1. Tetrahedron 2. Hedgehog 3. Japanese Scully 4. New Jersey Barrier 5. Wire 6. Concrete blocks 7. Desig
MW 137	
MW 138	Environment at position and DTG 1. Wind direction/speed (knots) (/) 2. Sea state () 3. Direction/height (m) of swell (/) 4. Current direction/speed (knots) (/) 5. Water depth (m) () 6. Burying conditions a. Centimeters () b. Percentage () 7. Visibility on the bottom (m) () 8. Suspended matter – height (cm) above bottom () 9. Soundspeed conditions a. Negative b. Positive c. Isothermal d. Layer exists (depth) 10. Bottom reverberation a. High b. Medium c. Low 11. Bottom composition a. Hard mud b. Firm mud – thickness (cm) () c. Soft mud – thickness (cm) () d. Fine sand e. Coarse sand f. Gravel g. Pebbles h. Scattered rocks/stones i. Rocky j. Ridges – orientation/height (cm) (/) k. Seaweeds/kelp l. Sea grasses m. Shells/broken shells n. Coral

MTP 1(D), Vol. II

- 12. Bottom clutter
 - a. Low
 - b. Medium c. High
- 13. Remarks

Note: The data contained in this signal are useful on the scene of action to conduct minehunting operations. They may later be processed in a database and utilized for operation planning purposes.

MTP 1(D), Vol. II

INTENTIONALLY BLANK

MTP 1(D), Vol. II

CHAPTER 27

NAVIGATION

2700 2701

2702

2703 2704 **Charts/Compasses Conditions**

Miscellaneous

Position/PIM

Lights

		2705	Time
2700 CHARTS/COMPA	SSES		
NA1			
NA2			
bearing. l When this	S CHECK. Check compasse Init addressed report "BF" v signal is executed observation indicate results of observation	when ready to carry on is to be made and e	out compass check.
NA4			
NA5			
2701 CONDITIONS			
NA6 CURREN	Γ. Direction and speed of cu	rrent are as indicated	I.
NA7			
NA8 DEPTH o	water is meters.		
NA9			
1. S	e fog precautions indicated _ ound fog signals ream fog buoy (at hundred y		
NA11			
NA12			

2702 LIGHTS

NA13 LIGHT	S. Your () light(s) (List A	A) is (are)(List B).
2 3 4 5 6 7 8 9 10 11 12	. Anchor aft . Anchor forward . Anchor forward . Man overboard . Masthead . Minesweeping (Green) . Minesweeping station keeping . Navigation/running . Out-of-command/breakdown . Range . Red mast/obstruction/red truck . Shaded/blue stern . Side (PORT or STBD may be add to be verified following DESIG) . Towing . Other (following DESIG)	 A. Correct B. Not showing/cannot be seen C. To be dimmed D. To be taken at full brilliance E. To be turned on F. To be turned out G. Too bright H. Too dim I. To compy with (publication/article following DESIG) J. To be verified for correct showing (feature
1 2 3 4 5	ON NAVIGATION LIGHTS (or List A). Anchor Minesweeping (Green). Minesweeping station keeping. Overtaking/stern Red mast/obstruction. Side Other (following DESIG)	r lights (List A)) ((List B)). List B A. At full brilliance B. Using dimming feature C. Shaded/blue
NA15		
2703 MISCELLANE	ous	
1 2 3 4 5 6 7 8	HT. My (or unit indicated) Height may be reported DESIG FEET. Mainmast Foremast Antenna platform (of largest antendated) Stern/quarterdeck Upper masthead steaming light Lower steaming light Red masthead obstruction light Horizon bar	
1	FLAG. Hoist Pilot Flag(. Starboard Yardarm . Port Yardarm	_) as required.

2704 POSITION/PIM

NA18 DATA LINK REFERENCE POINT is located at latitude and longitude.
NA19 GRID ORIGIN. The grid origin is centered on 1. Position() latitude and () longitude 2. Unit indicated 3. Datum (inferior to DESIG)
NA20 GRID POSITION. My (or unit indicated) grid position is (and my reference position is) (at time). 1. CCG (XY grid) 2. GEOREF 3. UTM
NA21 INITIAL POSITION for scheduled exercise or exercise event indicated from Table X is
NA22 MY POSITION (or) is as indicated by accompanying position signal. Time may be indicated by time signal. 1. Point of origin 2. Reference point indicated by numeral(s) or letter(s) following DESIG 3. Reference position of OTC or unit indicated 4. Rendezvous 5. Your position 6. Position of unit indicated 7. Position of formation center 8. Position of disposition center 9. Post-action rendezvous 10. Start position for serial/exercise 11. End position for serial/exercise
NA23 CONTROL POINT. Position of control point is at position indicated. 1. Grid 2. Geographic
NA24 PIM. Position and intended movement (PIM) is as indicated. (a) Position (b) Time of position in whole hours (c) Course (d) Speed (e) Period in hours for which preceding course and speed are in force If the period covered by the PIM includes several changes of course and speed, (c), (d), and (e) may be repeated as necessary as shown in example below. Example: NA24—110 KK 5—08—135—10—2—110—12—1 Reference position at 0800 is
110°, 5 miles from point KK. Intended movements are: (1) course 135°, speed 10 knots for 2 hours; (2) course 110°, speed 12 knots for 1 hour.
NA25 PIM. Extend duration of course and speed now steaming until
NA26

NA27 POSITION OBTAINED BY 1. Bearings 2. Consol 3. Dead reckoning 4. Decca 5. Direction Finder 6. Loran 7. Observation 8. Omega 9. Radar ranges and bearings 10. Satellite 11. Shoran 12. Sins 13. Soundings
NA28 POSITION SYSTEM. Accompanying position signal is based on system. 1. CCG (XY grid) 2. GEOREF 3. Latitude and longitude 4. Military grid reference 5. UTM
NA29 POSITION XX for enemy reporting is established as 1. The reference position of the OTC now (or at) 2. Geographic position indicated 3. Lettered position , previously issued
NA30
NA31 REFERENCE POINT. This unit or unit indicated will pass through reference position identified by letter and/or numeral following DESIG at (course and speed).
NA32 NAVTRACK. Responsibility for maintaining NAVTRACK lies with this unit or unit indicated.
NA33 FOLLOW NAVTRACK. 1. So as to pass Points at times indicated 2. Rejoining along NAVTRACK, or at Point along NAVTRACK 3. Follow NAVTRACK at knots over the ground 4. Keep within miles of the NAVTRACK
2705 TIME
NA34 ESTIMATED TIME of is 1. Arrival 2. Commencement of flight operations 3. Commencement of serial or event (number) 4. Completion of flight operations 5. Completion of serial or event (number) 6. Departure 7. Rejoining 8. Time on target (TOT)

NA35	If a zigzag diagram is in force, this signal is to be executed at the time a turn is due to be made. 1. Watches 2. Zigzag clock
NA36	ZERO TIME. Zero time will be indicated by the execution of this signal or by numerals following.
NA37	ZONE TIME. Use zone time indicated by letter following DESIG (at).
NA38	
NA39	
NA40	

MTP 1(D), Vol. II

INTENTIONALLY BLANK

CHAPTER 28

2800

N.B.C.

Nuclear

		2801 2802	Chemical Biological
2800 NUCLE	EAR		
NB1	CONTAMINATED AREA. Area (enclosed by positions in tween bearings and to a distance from undergone nuclear attack recently (or at). Contamprobably exists.	position in	dicated) has
NB2	CONTAMINATED SHIP. This ship or unit indicated is contaity. Degree of necessity for evacuation of present crew is 1. Crew members have become casualties and cannot operate. 2. Personnel heavily exposed; can operate ship but will soon is should evacuate as soon as possible. 3. Crew should be evacuated by time indicated by accompany. 4. Some casualties should be transferred but general evacuate. 5. No necessity for evacuation.	e ship. become casu	ualties and
NB3	CONTAMINATED WATER. Water of anchorage and its contaminated. (Do not) 1. Eat fresh fish caught in the area 2. Retrieve any floating objects 3. Run any evaporators 4. Swim in the area 5. Wash down decks with salt water 6. Do any of the above items	/icinity is r	adiologically
NB4			
NB5	CUMULATIVE DOSE received by is roentgen 1. Exposed personnel (weapons, flight deck crews) 2. Protected personnel (control spaces, communications, mag 3. Machinery space crews 4. Monitoring and decontamination crews		ter stations)
NB6	DOSE RATE at weather deck level in this area or area indic per hour.	ated is	_roentgens
NB7			
NB8	FALLOUT. Forecast EDW (effective downwind) is from d Duration of forecast may be indicated by time sign		at speed
NB9			
NB10			

NB11	
NB12 PROBABLE YIELD in tons is tons is 2. Mega	·
NB13	
NB14 GROUND ZERO bears from g	guide or unit indicated distance
NB15	
NB16	
NB17	
2801 CHEMICAL	
NB18 CHEMICAL WARFARE ATTACK is (List B)). List A 1. Possible 2. Probable 3. Imminent	List A) (expected method of delivery is List B A. Low-level aircraft spray B. Guided missile C. Airburst bomb D. Chemically filled shell
NB19 CHEMICAL AGENT. This ship or unagent ((List A)) (and is confied as agent (List C)). List A Liquids A. Heaving 2. Aerosol B. Model 3. Vapor C. Lightly D. Not	ontaminated (List B)) (which has been identi- B List C ly 31. Nerve rately 32. Blister
NB20 CHEMICAL ATTACK CEASED.	
NB21	
NB22	
NB23	
2802 BIOLOGICAL	
NB24 BIOLOGICAL ATTACK. Attack by b	piological agent is probable.
NB25	
NB26	
NR27	

MTP 1(D), Vol. II

CHAPTER 29

RADAR

2900 General Signals

2900 GENERAL SIGNALS
RA1 RADAR GUARD DUTY. Assume radar guard duty (as). 1. Air search (between and miles) 2. Air search (between and degrees) 3. Surface search (between and miles) 4. Surface search (between and degrees) 5. Scan in elevation (between and degrees) 6. Recognition guard 7. In current EMCON plan
RA2 CALIBRATION. Carry out radar calibration (run number).
RA3
RA4 CONTACT. Have radar contact (believed to be (List A) (List B)). List A
RA5
RA6 IFF/SIF. Operate IFF/SIF () (in sector). 1. Airborne 2. At discretion 3. Shipborne 4. To challenge and identify target 5. Using mode (and code)
RA7
RA8
RA9

MTP 1(D), Vol. II

INTENTIONALLY BLANK

MTP 1(D), Vol. II

CHAPTER 30

READINESS

3000	Casualties
3001	Damage
3002	Degrees of Readiness
3003	Equipment Readiness
3004	Fuel State
3005	Miscellaneous
3006	Readiness for Sea/Steaming
3007	Towing Signal Table

3000 CASUALTIES

RE1	OFFICER DISABLED. Officer (from Table P) is disabled.
RE2	PERSONNEL CASUALTIES Numeral(s) following TACK may be added to indicate number of casualties. 1. Prepare to receive personnel casualties 2. Hoist flag M at yardarm when ready to receive personnel casualties 3. This unit or unit indicated has personnel casualties.
RE3	PERSONNEL REMAINING available for duty is percent of original complement (from Table P).
RE4	
RE5	

3001 DAMAGE

RE6	DAMCAT. This unit (or unit indicated) has sustained(List A) category dam-
	age, including ((<i>List B</i>)); assessment of damage to indicated unit (by (<i>List C</i>) (DESIG number of percentage damaged)).
	List A List B List C
	A. Sunk 1. AAW capability A. Acoustic assessment
	B. Imminent loss 2. Amphibious or logistics B. ESM assessment C. Inoperable support capability C. Independent observer
	D. Mission aborted 3. ASUW capability D. Post-action visual
	E. Immobilized 4. ASW capability observation
	G. Medium damage navigation impaired F. Visual observation
	A. Sunk B. Imminent loss C. Inoperable D. Mission aborted E. Immobilized F. Major damage G. Medium damage H. Minor damage J. No damage S. Imminent loss 2. Amphibious or logistics Support capability Suppo
	J. No damage 7. Loss of sensors 8. Major fire
	9. Major flooding
	10. Major propulsion damage 11. Mine warfare capability
	12. Minor fire
	13. Minor flooding 14. Onboard repairs
	15. Personnel
	16. Speed reduced 17. Underwater penetration
	The Origination politication
RE7	ASSISTANCE. Require () assistance.
	Decontamination party Explosive ordnance disposal (EOD) team
	Fire and rescue party
	Fire tug Firefighting equipment (type indicated following DESIG)
	6. Medical
	7. Medical/casualty evacuation (MEDEVAC/CASEVAC) 8. No
	9. Salvage party
	10. Towing
RE8	ANTINUCLEAR EFFECT PRECAUTIONS. Activate system.
	1. Prewetting
	2. Washdown
RE9	CONTAMINATED. This ship or unit indicated is being contaminated by fallout.
	(Results are as indicated) Inferior to NEGAT means: "Fallout has ceased."
	 Cannot complete an immediate operation Can complete an immediate operation
	Can complete current mission
	Can undertake a subsequent operation without delay
RE10	ABLE TO CONTINUE. This unit or unit indicated is able to continue on assigned
	mission.

RE11	DAMAGED. This ship or ship(s) indicated has (have) been damaged by (<i>Lis A</i>) resulting in (<i>List B</i>). (A time signal indicates time at which damage will be repaired.)
	List A A. Bombs B. Collision C. Fire C. Fire C. Grounding E. Guns F. Heavy leakage G. Mines H. Missiles List B 1. No restriction 2. Reduced AAW capability 3. Reduced ASUW capability 4. Reduced ASW capability 5. Reduced mobility 6. Sinking 7. Withdrawing 7. Withdrawing 8. Storm 9. Torpedo (PORT or STBD may be indicated) 8. Underwater explosion
RE12	FIRE ON BOARD. Ship indicated has a fire on board.
RE13	FIRE is (flames are) 1. Extinguished 2. Increasing 3. Serious 4. Under control
RE14	FRIENDLY UNIT SUNK (in position) (call sign).
RE15	FLIGHT DECK DAMAGE. Flight deck has been damaged (and). 1. Aircraft can land 2. Aircraft can take off 3. Aircraft can take off and land with difficulty 4. Is beyond repair by this ship 5. Repairs can be effected by time indicated
RE16	REPORT DAMAGE or what is wrong with you.
RE17	SEND RESCUE AND ASSISTANCE DETAIL/TEAM to this unit or unit indicated.
RE18	FLOODING. Ship or unit indicated is flooding. (Flooding is) 1. At the rate of gallons per minute 2. Being dewatered 3. Beyond the capacity of ship's pumps 4. Progressive from frame forward 5. Progressive from frame aft 6. From frame to frame 7. Out of control 8. Under control

3002 DEGREES OF READINESS

RE19		
		DEGREE OF READINESS. Assume (from List A) (from List B) degree of readiness (at). List A
		readiness.
RE21		
RE22 WEAPON ALERT STATE. Weapon(s) indicated from Table A 1. Can be brought into action in minutes 2. Is (are) ready		
RE23		HEAVY WEATHER. Prepare for heavy weather (about).
RE24		
RE25		MISSILE ATTACK. Prepare for attack by self-propelled or guided missile.
RE26		SECURITY ALERT STATE. Assume security alert state as indicated
		A. Alpha B. Bravo C. Charlie D. Delta
RE27		
3003	EQUIP	MENT READINESS
RE28		
RE29		AMMUNITION Use types from Table A. 1. Amount of ammunition remaining is percent 2. Conserve () ammunition 3. Have () ammunition ready for immediate use 4. Number of rounds or units of ammunition remaining or onboard is
RE30		EFFICIENCY REDUCED. Equipment indicated is operating at reduced efficiency.

MTP 1(D), Vol. II

RE31 INOPERATIVE. Equipment indicated is inoperative (for). (A time signal indicates estimated time at which repairs will be completed.) 1. Routine maintenance 2. Urgent corrective maintenance
RE32 OPERATE equipment indicated. 1. Continuously 2. Intermittently
RE33 REPAIRS can be effected (). (A time signal indicates time at which repairs will be completed.) 1. But must stop for repairs 2. By ship's crew 3. Only by dry docking 4. With shipyard help 5. With repair ship help 6. On receipt of spare parts
RE34 REPAIRS COMPLETED. Repairs have been completed on equipment indicated.
RE35 MCM EQUIPMENT REMAINING. Number of usable items of MCM equipment (type from Table Y) is
RE36 UNRELIABLE. Equipment indicated is unreliable.
RE37 EQUIPMENT LIFE. Total number of running hours on equipment indicated is (Estimated life remaining is hours.)
RE38
3004 FUEL STATE
RE39
RE40 PERCENTAGE REMAINING. Percentage of remaining on board is percent at noon (or). 1. AVCAT 2. Aviation gasoline 3. Burnable oil 4. F-75 5. F-76 6. F-77 7. F-44 (JP-5) 8. Marine gas oil 9. Diesel oil 10. Distillate fuel/DFM 11. Gasoline 12. Lubricating oil 13. Feed water 14. Potable water 15. DESIG type of liquid (NATO symbol if one exists)
Example: RE40—4—75 75 percent of diesel oil remains on board at noon.

30-5
NATO-UNCLASSIFIED

RE41

3005 MISCELLANEOUS

RE42 READINESS (or condition) of this ship or unit indicated is (a) Antiaircraft guns usable (b) List in degrees (PORT or STBD may be added) (c) Main battery guns usable (d) Missile battery usable (e) Maximum draft in feet (f) Maximum speed possible
RE43 Tow. 1. Require tug to tow this ship or unit indicated 2. Take this ship or unit indicated in tow 3. This ship or unit indicated will take you in tow 4. Tow has parted 5. Tow this ship or unit indicated into shallow water 6. Transfer tow to this ship or unit indicated
RE44
RE45
3006 READINESS FOR SEA/STEAMING
RE46 LIGHT SUPERHEATERS.
RE47 SHAFT POWER. Have shaft power available for (at hours notice). 1. Ensuring safety 2. Flying operations 3. Maximum fuel economy (single boiler/trail shaft operation permitted) 4. Maximum speed 5. Speed in knots indicated by numeral group following TACK 6. Working anchors/cables
RE48 DELAY getting underway (). 1. Remain at hours notice 2. Remain at minutes notice 3. Until 4. Until further notice
RE49 NOTICE. Come to or revert to hours notice for getting underway (at knots).
RE50 ESTIMATED TIME of is 1. Readiness for sea 2. Steam (being at new notice for)
RE51
RE52

3007 TOWING SIGNAL TABLE

The numerical flag indicator for the table (Flag 6) may be left flying in a superior position when successive signals from the same table are being made.

6A	TOW me (or unit indicated). (Gear provided by) 1. Ship being towed 2. Ship towed
6B	DRIFT SPEED AND DIRECTION is knots to
6C	SHIP'S HEAD is (PORT or STBD may be added to indicate direction paying off.)
6D	WIND SPEED AND DIRECTION is knots from
6E	TOWING PLAN. Will take you under tow with my stern to your bow (or). 1. With my stern to your stern 2. With my (or designated unit's) bow to your stern to act as rudder
6F	TOW APPROACH. Will close your (or close my) (PORT or STBD) side (or). 1. Bow 2. Stern
6G	READY. I am ready (or). 1. Not ready (until) 2. Do not agree
6H	COMMENCING APPROACH. I am commencing (or commence) approach (or). 1. I am making (or make) another approach
6I	STOP YOUR ENGINES.
6J	MY ENGINES are 1. Stopped 2. Turning ahead 3. Turning astern

6K	DISTANCE. 1. Move out (or I am movi 2. Move closer (or I am m 3. Move ahead (or I am m 4. Move astern (or I am m 5. You are (or I am) in pos	oving closer) (feet) oving ahead) (feet) oving astern) (feet)
6L	STOP. The way is off my sh	nip.
6M		
6N	BOLO/GUNLINE. Pass bolo 1. I will pass bolo/gunline 2. Bolo/gunline parted/mis	
60	LIGHT MESSENGER (is	(List A)). ((List B)). List B A. Avast B. Heave around C. Slack off D. Let go
6P	HEAVY MESSENGER (is	(List A)). ((List B)). List B A. Avast B. Heave around C. Slack off
6Q	TOWING HAWSER (is List A 1. Outboard 2. Inboard 3. Foul 4. Parted 5. Secure 6. Connected 7. Disconnected 8. Riding well 9. In need of freshening	(List A)). ((List B)). List B A. Avast B. Heave around C. Slack off D. Pay out (or I am paying out) E. Shorten in (or I am shortening in) F. Cast off/trip slip (or I have cast off/tripped slip)

6R	CHAIN (is (<i>List A</i>)). ((<i>List E</i>	
	2. Inboard E 3. Foul 4. Parted 6 5. Secure	List B A. Avast B. Shorten in (or I am shortening in) (to feet of chain) C. Veer (or I am veering) (to feet of chain) D. Recover (or I am recovering)
6S	TOW. I am 1. Ready to commence tow 2. Commencing tow	
6T		
6U	SPEED THROUGH THE WATER. 1. I am increasing (or increase) speed (2. I am decreasing (or decrease) speed (3. My engines have (or make) turns for (4. My speed is (or make your speed)	d (to) d knots
6V	PORT or STBD COURSE. I am adju).	sting (or adjust) course PORT or STBD (to
6W	CONDITIONS 1. Conditions are fine 2. All gear is recovered and inboard 3. I am encountering difficulties	
6X		
6Y	AFFIRMATIVE.	
67	NEGATIVE	

MTP 1(D), Vol. II

INTENTIONALLY BLANK

CHAPTER 31

REPLENISHMENT/TRANSFER

		3100 3101 3102	Replenishment Signals Signals Relating to Replenishment Helicopter Transfer/Vertical Replenishment Signals
		3103	Night Replenishment
3100 REPLENIS	SHMENT SIGNALS		
(a	t transfer station (<i>List O</i> RT or STBD may be ad <i>List A</i> 1. Fuel 2. Guard mail 3. Mail 4. Movies 5. Officer courier mail 6. Personnel 7. Stores *Support line	(st B)) (ship to Ided to indica A. FWD	ok
RS2 Fl	JEL to capacity (or p	percent).	
RS3 M.	 Light line, my STBD sid Light line, my PORT sid Manila highline rig*, my Manila highline rig*, my Light jackstay rig**, my Light jackstay rig**, my *Support line 	de de STBD side PORT side	t material for transfer. ok hook

RS4	POL/WATER REQUIRED. I B) by (List C).	require	(<i>List A</i>), qı	uantity	_ units	(List
	List A 1. AVCAT 2. Aviation gasoline 3. Burnable oil 4. Diesel oil 5. Distillate fuel/DFM	A. Tons B. Liters C. Cubic n D. US gall E. Imperia F. US barr	List B neters ons I gallons rels	21. Probe 22. NATO 23. Admira nectio 24. Quick- (QRC)	B-end alty screwed n (ASC) -release cou	con- pling
RS5	POL/WATER RECEIVED/SI units (List B) List A 1. AVCAT 2. Aviation gasoline 3. Burnable oil 4. Diesel oil 5. Distillate fuel/DFM 6. Gasoline 7. JP-5 8. Lubricating oil 9. Feed water 10. Potable water 11. DESIG type of liqui (NATO symbol if or exists)	id	-	st B meters llons al gallons	(<i>List A</i>), q	uantity
RS6	PROVISION OF TRANSFEI 1. I will provide 2. You provide	R RIG	rig for trans	sfer.		
RS7	REPLENISH ((List A)) ignation from RAS planning List A 1. Fuel 2. Stores 3. Ammunition 4. Potable water	(call sheet) (sign of receivi time ZUL	ng ship) (_ U).	positio	on des-

tra	EPLENISH/TRANSFER (_ ansfer station (<i>List C</i>)) (from ated).	(List A)) (by rig or m PORT or STBD side of su	r means (<i>List B</i>)) (at upplying ship or ship indi-
	List A 1. Ammunition 2. Aviation gasoline 3. Burnable oil 4. Diesel oil 5. Distillate fuel/DFM 6. Feed water	C. Boat D. Breakable-spool coupling E. Burton F. Close-in G. Double Burton H. Heavy jackstay J. Helicopter K. Housefall L. Jackstay fueling M. Large derrick N. Light jackstay P. Light line Q. Manila/synthetic highline R. Modified housefall S. Probe coupling T. Spanwire	List C 31. FWD 32. AMID 33. AFT 34. Station No
•	PORT transfer statio		, ,
i	RS8—3S—34—3 Replenis.	h burnable oil by probe couplin	ng at transfer station 3.
ur Di	nit is to be by Method ALF ESIG) (in steps, usin NSWER for 15° steps, or ī	of alterations of course and FA, BRAVO, or CHARLIE (Ing ANSWER for 5° steps, FWO for 20° steps. To be under the person of the steps of the step of the steps of the step of the	Flag A, B, or C following ONE for 10° steps, ONE sed when zigzagging.).
	BRAVO	Telephone/loud hailer Voice radio Visual (flags by day, light by nigh	t)
	be 1. STBD side (in order of compared to compar	call signs)	nment (from ship) is
Example: I	RS10 c/s 9TP—1 c/s 4VX c/s 6 from ship holding ca	XR—2 c/s 4AH c/s 1MR See ll sign 9TP is to be: STBD side ing call sign 6XR; PORT side	e, ship holding call sign

RS11	 -	1. Stream (PORT or STBD may be indicated) 2. Recover 3. Veer marker float metres. 4. Heave in marker float metres.	
RS12	 -	. REPLENISHMENT TIME. Estimated 1. Duration of RAS is minutes 2. Time of commencement of RAS is 3. Time of completion of RAS is	
RS13			
RS14			
RS15		DISPLACEMENT. Estimated displacement is 1. Deep laden 2. Medium 3. Light	

3101 SIGNALS RELATING TO REPLENISHMENT

STATION L	fer. PORT or STBD may follow. 1. Abeam 2. Alongside 3. Astern	5. Quarter 6. Standby (300 to 500 yards astern) 7. Standby (400 yards abeam) 8. VERTREP
R CORPEN	REPLENISHMENT COURSE is	(speed is).
R SPEED	REPLENISHMENT SPEED is	
CORPEN N	to degrees PORT/STBD as for 5° steps, ONE for 10° steps, C 20° steps. Ships not in replenishment trances from the formation course as directed by their bearings and distances from	urse when ordered by their control ship(s) indicated in steps. Use ANSWER ONE ANSWER for 15° steps, or TWO for units are to preserve true bearings and disguide. Ships in replenishment units alter control ship(s) so as to preserve relative a their replenishment unit guide. Replenishinge during the course alteration(s).
SPEED L	knots in steps. Use ANSWER etc. Ships not in replenishment ing true bearings and dista	eed when ordered by control ships to for 0.5-knot steps or ONE for 1-knot steps, units are to alter speed similarly, preservances from the formation guide. Ships in erve relative bearings and distances from
SPEED R2	REDUCE SPEED to stream/recover	er astern fueling rig (to knots).
	CORDEN N and SPEED	I. Procedure

CORPEN N and SPEED L Procedure

WHEN ORDERED OR REOUIRED TO ALTER COURSE OR SPEED, THE CONTROL SHIP EXE-CUTES THE ALTERATION USING THE FOLLOWING PROCEDURE.

- 1. The control ship orders a CORPENN or a SPEED L to the replenishment unit, as described above.
- 2. On receipt of the signal CORPEN N or SPEED L, ships replenishing alongside and/or astern report BF to the control ship when ready to commence the alteration. (BF is also required from the replenishment unit guide if he is not the control ship.) When the ships replenishing have reported READY, the control ship will alter the course or the speed of its replenishment unit by using Method A, B, or C.
- 3. Ships in waiting/lifeguard station will not report BF but will follow in order to preserve relative bearings and distances from the replenishment unit guide.
- 4. As applicable, on reaching the new course or the new speed the control ship reports completion of alteration to the OTC.

3102 HELICOPTER TRANSFER/VERTICAL REPLENISHMENT SIGNALS

FLAG	INDICATION	NORMALLY DIS- PLAYED		MEANING	
H1	VERTREP	BY CUSTOMER/ SUPPLYING SHIP:	AT DIP	CLOSE UP	HAULED DOWN
		Where best seen.	I am preparing to receive/ commence VER- TREP.	Helicopter may close now/ commencing VERTREP.	Transfer completed.
				HELICOPTER ACTION: Position for transfer.	
H1 TACK T	VERTREP	BY CUSTOMER SHIP:	WHILE FLYING: Des	sire transfer.	
		Where best seen.	HELICOPTER ACTION	ON: Orbit ship.	
H1 TACK B plus numerals	TORPEDO TRANSFER	Where best seen.	WHILE FLYING: Indi	cates number of units	for transfer.
H1 TACK D plus numerals	DELAY IN TRANSFER.	Where best seen.	WHILE FLYING: Dela of delay.	ay in transfer. Numera	als indicate minutes
_	MAIL/CARGO FOR TRANSFER	Where best seen.	WHILE FLYING: Indi 10 kilograms.	cates weight of mail/o	argo in increments of
H1 TACK M plus numerals	MAIL/CARGO FOR TRANSFER	Where best seen.	WHILE FLYING: Indi 10 pounds.	cates weight of mail/o	argo in increments of
H1 TACK P plus numerals	PASSEN- GERS FOR TRANSFER	Where best seen.	WHILE FLYING: Indi	cates number of pass	engers for transfer.
H1 TACK Q plus nuem- rals	PATIENTS FOR TRANSFER	Where best seen.	WHILE FLYING: Indi	cates number of patie	nts for transfer.
BEANBAG* DELIVERY			HELICOPTER ACTION: Approach ship with helicopter flood-lights ON.		
EMERGENCY BREAKAWAY			SHIP ACTION: Use standard wave-off.		
			HELICOPTER ACTION: Turn ON hover lights.		
*A small canv	*A small canvas (weighted) bag used to transfer small objects from ship to helicopter or helicopter to ship.				

31-6
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

3103 NIGHT REPLENISHMENT

By night the morse equivalents of ROMEO and PREP may be flashed four times without call or ending during replenishment operations, using the following colored lights, as appropriate:

WHITE Light	Signal at the DIP
RED Light	Signal CLOSE UP

MTP 1(D), Vol. II

INTENTIONALLY BLANK

CHAPTER 32

ANTISURFACE WARFARE

3200	Attack
3201	Command
3202	Gunnery and Missile
3203	Plan
3204	Torpedo
3205	TORPEDO ACTION TABLE
3206	Special Night Torpedo Firing Signals
3207	Special Day Torpedo Firing Signal
3208	SURFACE ACTION TABLES
3209	Special FPB Maneuvering Signals
3210	SAG Signal Table

3200 ATTACK

SU1 ACTION (until/when conditions exist as indicated from Table W). 1. Avoid action 2. Commence action 3. Chase enemy (type or force may be indicated from Table F) 4. Do not commence surface fire until identity is established
SU2 ACTION. Aim of action is of enemy surface forces. 1. Containment 2. Destruction 3. Diversion 4. Repelling
SU3 ATTACK (until/when conditions exist as indicated from Table W). 1. Attack from direction is being carried out by unit indicated 2. Break off the attack 3. Delay attack (until) 4. Carry out feint attack on enemy from bearing (bearing is to be taken from center of enemy) 5. Close and attack 6. Attack completed
SU4 CLOSE RANGE (). 1. As rapidly as possible 2. Consistent with keeping all guns bearing 3. To effective missile range 4. To effective torpedo range 5. To maximum effective gun range 6. To maximum gun range 7. To maximum missile range 8. To maximum torpedo range 9. To thousand yards
SU5 COORDINATED ATTACK. Attack is to be coordinated at time indicated.

SU6	CONCENTRATE 1. At time indicated 2. In position 3. On enemy as indicated (from Table F) 4. On enemy bearing 5. On unit indicated
SU7	OPEN RANGE (). 1. As rapidly as possible 2. Beyond effective gun range of enemy 3. Beyond maximum gun range of enemy 4. Beyond maximum missile range of enemy 5. Consistent with keeping all guns bearing 6. To maximum gun range 7. To maximum missile range 8. To maximum torpedo range 9. To thousand yards
SU8	WARNING FIRE. Fire warning shot across contact's bow.
SU9	I AM MANEUVERING TO UNMASK (). 1. Guns 2. Missile launcher 3. Rocket-assisted ASW weapon 4. Torpedo tubes
SU10	SAG COMMANDER. Assume command as SAG commander (or) 1. SAG commander is
3201 COMM	IAND
SU11	FORM SAG and clear the force in direction (List A) (or on bearing) to investigate (List B). List A 1. North 2. East 3. South 4. West A. Skunk indicated C. Visual sighting
SU12	. INVESTIGATE. Investigate track identity, be prepared to illuminate and engage.
SU13	FORM HAG and clear the force in direction (List A) (or on bearing) to investigate (List B). List A 1. North 2. East 3. South 4. West

3202 GUNNERY AND MISSILE

SU14	CLEAR LINE OF FIRE from this unit or unit indicated (on bearing).
SU15	
SU16	TARGET RANGE is thousand yards.
SU17	
SU18	
3203 PLAN	
SU19	ACTION. Fight a action. 1. Delaying 2. Harassing 3. Pursuit 4. Retiring 5. Surface, detaching SAG 6. Surface, using all forces 7. Withdrawing
SU20	
SU21	
SU22	
SU23	POSITION. Surface action plan is based on keeping our force in position 1. Between the enemy and his base 2. Between the enemy and our base 3. Between the enemy and our convoy 4. Between the enemy and our high value unit(s) 5. To leeward of enemy 6. To windward of enemy
SU24	
SU25	

3204 TORPEDO

SU26					
SU27	,		-		ATTACK SECTOR. Your sector of attack will be (from the of the enemy) with the enemy as the reference point. A group of three numerals following the basic group, separated by TACK, indicates true bearing from which to attack. 1. Northward 2. Southward 3. Eastward 4. Westward
	Ε.	xa	mį	ole	: SU27—3 Your sector of attack will be from the eastward of the target with the target as the reference point. SU27—0508 ANS Your sector of attack will be between 050° and 085° true with
					the enemy as the reference point.
					SU27—170 Attack enemy from bearing 170° true.
SU28					
SU29	,				FIRED. Torpedoes have just been fired (or were fired at time indicated) by ships of my unit (on torpedo course).
SU30					PROCEED TO POSITION. Proceed to most advantageous position for torpedo attack and 1. Attack with torpedoes 2. Do not attack until ordered
SU31					PROCEED TO SECTOR. Proceed to your sector(s) (or to sector(s) with the enemy as reference point). A group of three numerals indicates true bearing from which to attack.
SU32					
SU33					RECOVERED. All torpedoes (or number) have been recovered. Ships to whom they belong may be indicated.
SU34					
SU35					TORPEDOES. Chase and recover torpedoes (or torpedoes). 1. Are in sight bearing 2. Are to be recovered 3. Have sunk
SU36					
SU37					



3205 TORPEDO ACTION TABLE

The numerical flag indicator for the table (Flag 9) may be left flying in a superior position when successive signals from the same table are being made.

9A	FIRE TORPEDOES () (to PORT or STBD as indicated). Number to be fired may be indicated by numerals following DESIG. 1. Using base torpedo course plan 2. Using coordinated attack plan 3. Using individual target plan 4. Using mutual target plan 5. As soon as enemy is sighted 6. At maximum torpedo range 7. At range of hundred yards 8. For exercise 9. From as close as possible 10. Outside visibility range; firing by radar
9B	
9C	ATTACK with torpedoes (in sector).
9D	TIME OF FIRING will be as indicated.
9E	PLAN. Use torpedo attack plan indicated.
9F	PROCEED to attack sectors (or sector). (Remain outside thousand yards from nearest enemy unit.)
9G	SECTOR. Attack with torpedoes in sector
9H	METHOD of attack will be 1. Formation attack in close formation 2. Formation attack in open formation 3. Independent 4. Sector 5. Spread
91	CONTINUE TO CLOSE ENEMY after the attack to disguise moment of firing torpedoes.
9J	POINT OF AIM. Enemy ship to be used as point of aim for torpedo firing bears from this unit or unit indicated range thousand yards.
9K	
9L	COURSE. Base torpedo course is as indicated (torpedo speed is as indicated by suffix below following TACK). 1. High 2. Intermediate 3. Low
9M	COURSE. Mean torpedo course for this unit or unit indicated is

9N SHOT ANGLE. Use shot angle to PORT or STBD as indicated. 1. Bow 2. Beam 3. Quarter
90 DEPTH. Set torpedoes to run at depth of feet.
9P TORPEDO SPEED. Set torpedo for speed (knots). 1. High 2. Intermediate 3. Low
9Q TARGET SPEED ACROSS to be used for firing is knots.
9R DEFLECTION ANGLE to be used for firing is degrees.
9S SETTINGS. Use individual settings for target speed across or deflection angle
9T TIME of hitting is to be synchronized so that all torpedoes will hit at
9U TARGET. Torpedoes will strike target at
9V TURN AS REQUIRED (to PORT or STBD) and fire torpedoes, returning to original course (or course) after firing.
9W TURN IN SUCCESSION (to PORT or STBD) and fire torpedoes, returning to orig nal course (or course) after firing.
9X TURN TOGETHER (to PORT or STBD) and fire torpedoes, returning to original course (or course) after firing.
9Y RETIRE on approximate course after firing.
97 STEADY BEARING Close target by steady bearings (present bearings)

3206 SPECIAL NIGHT TORPEDO FIRING SIGNALS

These signals may be used independently or in conjunction with torpedo action signals. The OTC will endeavor to lead on to a course suitable for firing before making the "turn and fire" signal.

Long RED flashes	Contact has been made with the enemy on the PORT side.
Long GREEN flashes	Contact has been made with the enemy on the STBD side.
Steady RED light	Stand by to fire torpedoes — PORT side.
Steady GREEN light	Stand by to fire torpedoes — STBD side.
Short RED flashes	Turn as required and fire torpedoes to port. OTC intends to steady on a course that is the reciprocal of the bearing of the enemy on firing, unless otherwise ordered.
Short GREEN flashes	Turn as required and fire torpedoes to starboard. OTC intends to steady on a course that is the reciprocal of the bearing of the enemy on firing, unless otherwise ordered.
GREEN Very Star	Exercise signal to indicate that torpedoes have been fired.

3207 SPECIAL DAY TORPEDO FIRING SIGNAL

GREEN or BLACK Smoke Grenade	Exercise signal to indicate that torpedoes have been fired.
---------------------------------	---

MTP 1(D), Vol. II

INTENTIONALLY BLANK



3208 SURFACE ACTION TABLES

A. Flag 2 Surface Action Table — General

The numerical flag indicator for the table (Flag 2) may be left flying in a superior position when successive signals from the same table are being made.

2A	unit indicated is 1. TT 2. XX 3. YY 4. ZZ 5. SIM (submarine position and 6. DLRP (data link reference po	
2B	REFERENCE POINT POSITION is (from List B) and is effect List A 1. TT 2. XX 3. YY 4. ZZ 5. SIM 6. DLRP 7	The position of reference point (from List A) etive at (time). List B A (latitude) (longitude) B (bearing) (distance) C. Reference point previously issued D. Cartesian coordinate (xy) grid
2C	CONTACT DESIGNATION. Desi 1. Force track numbers 2. Local track designations 3. Other track numbers	gnations for contacts held by this unit are
2D	CONTACT REDESIGNATION. F 1. Force track number 2. Local track designation 3. Other track number	Redesignate your contact or contact indicated as
2E	CONTACT DATA. All contact da 1. Force track number 2. Local track designation 3. Other track number	ata following this signal pertains to

2F	CONTACT IDEN	TITY. Design	gnated cor	itact is unk	known or	(from <i>List</i>	A)
	(from List B) (and						,
	Li	st A		$\overline{List B}$		List C	
	 Certain 		A. Hostile			Carrier	
	2. Probable		B. Friendly			Large combatant	
	Possible		C. Neutral			Small combatant	
						Patrol Surfaced submar	ino
						AGI	IIIE
						Naval auxiliary	
						Amphibious	
					39.	Merchant	
						Unknown	
					41.	PIF/SIF	
2G	CONTACT LOCA	ATION Cor	ntact	(designat	ion) is loc	eated on hearing	a
20	(degrees true) from						
	at (time). Po						
	at(tille). Ft	2311101113 631	iiiiai c u io i	o c accurat	. c willilli a	uistance or	(''''').
2H	LOST CONTAC	T. Have los	st co	ntact with	target o	r target indicat	ed (last
	bearing) (I	ast distance	e)(time).	Ü	`
	1. ESM / \				_ /		
	Sonar						
	3. Radar						
	4. FLIR 5. Visual						
	6. All sensor	s					
	0. 7th 0011001	0					
21	CONTACT BEAF	RING AND E	BEARING A	ACCURAC	Y. Bearin	g of designated	contact
	from this unit or u	nit indicate	d is (d	degrees tr	ue) by	(from List A)	with ac-
	curacy within		s true) bas	ed on	(from <i>L</i>	.ist B).	
		List A			List B		
	1. ESM				red system		
	2. Sonar				ted system		
	3. RDF 4. Radar jan	mina snika		C. Target	motion ana	lysis (TMA)	
	5. FLIR	ining spike					
	6. Visual						
2.1	COLIDEE AND S	DEED Com	stoot oours	o io /	doaroca t	truis) and ansast	Lio
2J	COURSE AND S (knots).	PEED. COI	naci cours	e is(uegrees	irue) and speed	118
	(MIOIS).	If course and	d speed cann	ot be detern	nined accui	rately, a cardinal o	or inter-
						od by DESIG may	

2K	SENSOR. Contact (designation) is held by this unit or unit indicated on 1. ESM 2. Active sonar 3. Passive sonar 4. RDF 5. Radar (airborne) 6. Radar (air search) 7. Radar (surface search) 8. Intelligence 9. IR/EO 10. Visual
2L	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
2M	IDENTIFICATION. Your contact or contact indicated is 1. Correctly identified 2. Incorrectly identified
2N	ENGAGE target (bearing) or target indicated 1. As soon as possible 2. When weapons bear 3. When ready 4. At maximum weapon range 5. At maximum effective range 6. When range closes to thousand yards 7. When target is visible 8. If target is identified as hostile 9. If target commits a hostile act 10. If target demonstrates hostile intent 11. For harassment
20	CONCENTRATE fire on target(s) or target(s) indicated.
2P	TARGET is within my maximum range. 1. Gun 2. Missile 3. Torpedo

2Q	TARGET indicated has opened fire with 1. Guns 2. Missiles 3. Torpedoes
2R	DECOY. Contact is using decoys. 1. Acoustic 2. Chaff 3. Electronic 4. Infrared 5. Mechanical
2S	CHAFF CONFUSION. Fire chaff for confusion (bearing) (range thousand yards) (or). 1. In accordance with plan previously ordered
2T	CHAFF. Fire chaff for 1. Distraction 2. Seduction
2U	DECOYS. Release/fire decoys (from List A) ((from List B)). List A 1. Infrared 2. Radar A. Bearing (range thousand yards) B. In accordance with plan previously ordered
2V	DETECTED. This unit or unit indicated been detected by the enemy. 1. Has 2. Has not 3. May have
2W	DAMAGE. This unit (or indicated unit) has suffered damage and is 1. Continuing action 2. Withdrawing 3. Neutralized
2X	
2Y	
27	

B. Flag 3 Surface Action Table — Over-the-Horizon (OTH) Engagement

The numerical flag indicator for the table (Flag 3) may be left flying in a superior position when successive signals from the same table are being made.

3A	(from List A) in accordance 1. Designated material transporter reporting 2. Designated material own sensors 3. Designated material reports	ordance with surface action List A dissile firing unit(s) and and unit(s) dissile firing unit(s) using	get or target indicated using plan (from List B). List B A. GREYHOUND B. DESIG (OPGEN serial) C
E	OTH ASSM	track 2134 with call sign 1PD	—A Prepare to engage with as firing unit and call sign 3NF as rface action plan GREYHOUND.
3B	cated (using surface	List B A. GREYHOUND B. DESIG (Control of the control o	List C 31. OTC PGEN 32. SWC 33. SAGC 34. Designated firing unit 35. Designated target reporting unit 36. Designated forward observer 37. Designated unit 38. Independently 39
E.		using surface action plan GRE	OTH attack when ready against YHOUND as coordinated by unit
3C	against target or tar <i>List C</i>).	get indicated using (fr	Face action plan (from List A) From List B) as follows (from List C get

3D	SSM FIRE fire on target or target indicated. 1. Commence (commence previously directed fire mission or an urgent attack) 2. Hold (stop launch and destroy all missiles in flight) 3. Cease (stop launch, do not destroy missiles in flight) 4. Check (stop launch, stand by to resume) 5. Resume (launch remainder of missiles allocated for this fire mission) 6. Repeat (repeat fire mission with same number of missiles at the same target)
3E	SSM FIRE. I have fire on target or target indicated. 1. Commenced (launched ASSM) 2. Held (stopped launch and destroyed all missiles in flight) 3. Ceased (fired ordered number of missiles) 4. Checked (stopped launch, standing by to resume) 5. Resumed (launching remaining allocated missiles) 6. Repeated (launching same number of allocated missiles)
3F	SALVOS. When ordered to engage, unit(s) indicated attack target or target indicated with missile(s). Number may be indicated by numeral following DESIG. 1. Exocet 2. Gabriel 3. Harpoon 4. Penquin 5. Sea Dart (SASS mode) 6. Sea Killer 7. Standard (SASS mode) 8. Terrier (SASS mode) 9. Teseo 10. Tomahawk 11
3G	FIRING UNIT POSITION. Designated firing unit's position is
3Н	TARGET REPORTING STATION. Target reporting unit is to take station for reporting data on target or target indicated as required, reporting own position in (from List A). List A 1 (latitude) (longitude) 2 (x coordinate) (y coordinate) 3. Bearing (degrees true) and range (thousand yards) from (from List B) A. Reference position B. Firing unit C. Indicated unit
31	TARGET REPORTING STATION. I am reporting data on target or target indicated from position (from List A). List A List B 1 (latitude) (longitude) A. Reference position 2 (x coordinate) (y coordinate) B. Firing unit 3. Bearing (degrees true) and range (thousand yards) from (from List B)
3J	LINE OF FIRE. Intended long-range ASSM line of fire is (degrees true).
3K	LINE OF FIRE. Request intended long-range ASSM line of fire (degrees true).

3L .	 NOT RELEASABLE
3M.	 NOT RELEASABLE
3N .	FREQUENT TARGET REPORTING. Using 'Mark' procedures, target or target indicated is on bearing (degrees true), range (nm) from reference position (unit or point as indicated in previous 3L or 3M signal), course (degrees), speed (knots) (add any additional information). 3N—2134—STANDBY—MARK—230—75—120—20 Using 'Mark' procedures, track 2134 is on bearing 230° true, range 75 nm, course 120°, speed 20 knots.
30.	 CEASE FREQUENT TARGET REPORTING. Unit designated is to cease frequent target reporting.

3P	REPORT ATTACK RESULTS.	Unit designated is to report attack results.
3Q	ATTACK RESULTS. Estimate of unit(s) is 1. Sunk 2. Sinking 3. Heavily damaged 4. Lightly damaged 5. Undamaged 6. Dead in the water 7. Underway but hit 8. Miss 9. Missile unobserved 10. Unable to assess	f results of attack on target by designated firing
3R	List B) search pattern. List A 1. Active 2. Passive	(from List A) terminal guidance with (from List B) A. Small B. Medium C. Large D. BOL unmodified E. BOL with minimum attack range of thousand yards F. BOL with maximum attack range of thousand yards G. Mode
38	(from List B) search pattern. List A 1. Active 2. Passive 3. Active/passive	List B A. Small B. Medium C. Large D. BOL unmodified E. BOL with minimum attack range of thousand yards F. BOL with maximum attack range of thousand yards G. Mode
	as follows: (a) Bearing, latitude, or x coord (b) Reference point (c) Distance, longitude, or y coo (d) Semi-major axis (e) Semi-minor axis (f) Orientation of ellipse (g) Time ellipse is valid (h) Target course (i) Target speed (j) Probability of containment 3T—125—A—45—15—30—045— The area of probability for distance 45 nm. The ellipse	

within the ellipse is 90 percent.

30	CLEAR RANGE. Range within 10 degrees of the line of fire is (from List A)
	and within a 20-nm radius of the target is (from List B).
	$List\ A$ $List\ B$ 1. Clear A. Clear
	2. Foul by (number of ships B. Foul by (number of ships
	or radar contacts)
	or radar contacts) or radar contacts) Or radar contacts) Unable to assess C. Unable to assess
3\/	OBSERVE MISSILE STRIKE (number) of ASSM fired by designated firing
30	unit(s) will be at target in (seconds); prepare to observe.
	unit(s) will be at target in (seconds), prepare to observe.
3\/\	COORDINATED FIRE. Long-range ASSMs are to be fired on target or target indi-
OVV	cated to achieve a time on target of .
	cated to dome ve a time on target of
3X	
0/(
3Y	FORWARD OBSERVER. Unit designated is to take station on bearing (de-
01	grees true) from firing unit or unit indicated, distance(nm), (and/or in position
) to act as forward observer for controlling missile flight against target indi-
	cated.
	oatou.
3Z	
	

MTP 1(D), Vol. II

INTENTIONALLY BLANK



C. Flag 4 Surface Action Table — To-the-Horizon Range Engagement

The numerical flag indicator for the table (Flag 4) may be left flying in a superior position when successive signals from the same table are being made.

4A	ACTION PLAN. Carry out action p 1. GROUSE 2. SNIPE 3. DESIG (OPGEN serial) 4	olan against target or ta	rget indicated.
4B			
	ENGAGE (with) on target incurit indicated) (range thousand 1. Short-range SSMs 2. Long-range SAMs 3. Medium-range SAMs 4. Short-range SAMs 5. Main gun battery 6. Secondary gun battery	and vards)	_ from this unit or
4C	or unit indicated) (range tho 1. Short-range SSMs 2. Long-range SAMs 3. Medium-range SAMs 4. Short-range SAMs 5. Main gun battery 6. Secondary gun battery	usand vards)	from this unit
4D	ENGAGING. I am engaging targe 1. Short-range SSMs 2. Long-range SAMs 3. Medium-range SAMs 4. Short-range SAMs 5. Main gun battery 6. Secondary gun battery	t or target indicated with 7. Rockets 8. Close-range guns 9. Machineguns 10. Torpedoes 11. All weapons	
4E	CEASED FIRING. I have ceased 1. Short-range SSMs 2. Long-range SAMs 3. Medium-range SAMs 4. Short-range SAMs 5. Main gun battery 6. Secondary gun battery	7. Rockets 8. Close-range guns 9. Machineguns 10. Torpedoes	cated with

4F ILLUMINATE target or sector (with) (bearing) (range _ thousand yards). 1. Starshells 2. Rockets 3. Searchlights 4. Flares 5. In accordance with fire plan (or plan)	
4G ILLUMINATING. I am illuminating (with). 1. Starshells 2. Rockets 3. Searchlights 4. Flares 5. In accordance with fire plan (or plan)	
4H SPREAD. Fire starshell search spread to Upon attaining satisfactory justment, maintain continuous illumination of target. Suspected range a bearing may be added. 1. Illuminate suspected target 2. Locate suspected target	
4I FOLLOW MOVEMENTS of this unit or unit indicated in opening fire.	
4J FIRE DISTRIBUTION is 1. Normal fire distribution 2. Concentrate fire on target indicated 3. Split fire distribution Example: 4J2—DESIG 1234 Concentrate fire on track 1234.	
4K FIRE INDEPENDENTLY (at). 1. Targets of opportunity 2. Nearest enemy 3. FPB targets	
4L SHIFT FIRE 1. To target bearing from this unit or unit indicated 2. To right of target being engaged 3. To left of target being engaged	
4M FIRE on 1. Center of enemy formation 2. Leading ship of enemy formation 3. Left of enemy formation 4. Right of enemy formation 5. Ship number in enemy line counting from left to right 6. Ship number in enemy line counting from right to left 7. Nearest enemy 8. On track number 9. On target bearing from reference point at thousand yards	

4N	TARGET. Track target or target indicated and be prepared to engage.
40	CALIBRATION. Fire pre-action calibration (bearing) (range thousand yards).
4P	AMMUNITION. Use ammunition with fuzes. 1. Airburst 2. Impact 3. Mixed impact and airburst 4. Proximity 5. Proximity/time
4Q	GUNNERY RADAR. My gunnery control radar is being jammed. The effect is
	1. Negligible 2. To prevent ranging 3. To prevent auto follow
4R	FALL OF SHOT. Verify fall of shot using standard procedure.
4S	FALL OF SHOT is 1. Over (hundred yards) 2. Short (hundred yards) 3. Right (tens of yards) 4. Left (tens of yards) 5. Far over 6. Far short 7. Far right 8. Far left 9. Unobserved 10. Straddle
4T	COORDINATED FIRE. Short-range SSMs are to be fired on target or target indicated to achieve a time on target of
4U	
4V	
4W	
4X	
4Y	
4Z	

MTP 1(D), Vol. II

INTENTIONALLY BLANK

3209 SPECIAL FPB MANEUVERING SIGNALS

LIGHT/ VOICE SIGNAL	ALTERNATE HAND AND ARM SIGNAL	MEANING
AAAA	Extend arm overhead, then point arm astern.	Form COLUMN in the QUICKEST SEQUENCE on the most advanced ship.
ВВВВ		Form SINGLE LINE ABREAST in the QUICKEST SEQUENCE on the guide.
cccc	Face aft and cross extended arms above the head.	CUT engines, change engines.
DDDD	Extend arms in direction of new course.	WHEEL to STARBOARD.
GGGG		TURN TOGETHER 180 degrees to STARBOARD.
IIII	Move extended arm in a circle above the head.	INCREASE speed ONE STEP. (See Note 3.)
JJJJ		CLOSE ME for loudhailer conference.
KKKK		SPLIT as ordered or in next lower unit.
LLLL	Extend arms in direction of new course.	WHEEL to PORT.
MMMM		BREAKDOWN. Keep clear and continue operation.
NNNN		Form COLUMN in ORDER of sequence numbers.
0000		OPEN UP to 1,000 yards between ships.
PPPP	Extend arms vertically above head, then bring left arm down to horizontal.	Form PORT QUARTER LINE. (See Note 4.)
QQQQ	Extend arms vertically above head, then bring right arm down to horizontal.	Form STARBOARD QUARTER LINE. (See Note D.)

LIGHT/ VOICE SIGNAL	ALTERNATE HAND AND ARM SIGNAL	MEANING
RRRR	Extend arm with palm of hand down, move up and down at a right angle to the fore-and-aft line.	REDUCE speed ONE STEP. (See Note 3.)
SSSS	Face aft, hold arm vertically over- head, palm aft.	STOP ENGINES.
υυυυ		TURN TOGETHER 45 degrees to PORT (or as ordered).
VVVV	Face aft, extend arms up to a 45-degree angle, then bring arms up and down to horizontal.	Form ARROWHEAD on squadron (division) leader, divisions (subdiviions) in QUARTER LINE, with even numbered division (subdivision) to PORT. (See Note 4.)
www		TURN TOGETHER 180 degrees to PORT.
XXXX	Rotate both arms above the head.	Form DIAMOND formation.
ZZZZ		TURN TOGETHER 45 degees to STARBOARD (or as ordered).

NOTES:

- 1. Light/voice signals from this table are to be flashed/spoken without a preliminary call or ending. The end of the transmission indicates execution.
- 2 The range of the hand and arm signals can be increased by making them with hand flags.
- 3. Amount of knots in one step will vary depending on the FPB class.
- 4. When ordered to form quarter line, ships are to form in order of sequence numbers on a line of bearing that will keep them clear of the wash of the next ahead.

3210 SAG SIGNAL TABLE

INSTRUCTIONS

- 1. The SAG single-letter signals come into force and may be used between ships without further orders only when the signal, Form SAG (SU11), has been passed. SAG single-letter signals that order maneuvers are to be used only when the ordered distance apart of ships is 1,000 yards or more.
- 2. The single-letter meaning does not use (nor is it intended to use) the full range of meanings offered by the nearest equivalent normal flag signal.
- 3. Single letters will be flashed continuously until RRRR is received. When a numeral group follows the single letter, the whole group (e.g., G270) will be flashed repetitively until RRRR is received. The SAG commander will attempt to flash to all ships in the group; but when in line, intervening ships astern are to flash the signal along the line. Signal lamps are to be adjusted to the minimum required brilliance at night.
- 4. Use of single-letter signals does not preclude use of normal visual signaling procedures and signals as well, if the situation demands it.
- 5. Numerals are to be transmitted very deliberately as their Morse symbols. They are not to be spelled phonetically.
- 6. Ships should not acknowledge receipt until signals have been received at least twice.
- 7. All maneuvering signals are "for information" and are designed to aid ships in conforming to the movements of the Guide and remaining in their loose stations. They do not relieve individual ships of the responsibility for observing closely and conforming to the movements of the Guide. The SAG commander need not wait for the signal to be receipted before altering course or speed. The extent to which he uses this dispensation must depend upon the disposition at the time, amount of alternation, tactical urgency, and state of training of units concerned.
- 8. The SAG single-letter signals shall not be used by, and/or in cooperation with, fast patrol boats.

SINGLE-LETTER MANEUVERING SIGNALS

SIGNAL	MEANING
ALFA (followed by range in numerals)	Distance between ships in SAG is to be thousand yards.
BRAVO	Guide (or I am) altering course to PORT.
CHARLIE (followed by course in numerals and speed in numerals if required)	Commence zigzag plan YANKEE on present course (or course indicated). Reduce to optimum speed (or speed indicated).
FOXTROT	Guide is (or I am) altering course to STBD.
GOLF (followed by course in numerals)	Guide's course is or Guide is altering course to ·
KILO (followed by speed in numerals)	Guide's speed (or my speed) is
TANGO	By receiving ship(s) to transmitting ship: I am reading your light. (To be made as soon as light is noticed, to help transmitter train his light.) This does not negate the requirement for a ROGER.
UNIFORM (followed by bearing in numerals)	The threat bearing is
ZULU (followed by bearing in numerals)	Form loose line of bearing in quickest sequence initially on . (Ships subsequently adjust automatically the line of bearing to be at right angles to the threat bearing (signaled by UNIFORM).)

SINGLE-LETTER ACTION SIGNALS

SIGNAL	MEANING
DELTA	Engage (with). 1. ASMs 2. Guns 3. Helicopters 4. Torpedoes
HOTEL	Assume EMCON plan for SAG action.
INDIA (followed by nickname of enemy radar followed by bearing in numerals)	Jam enemy radar indicated on bearing
JULIETT (followed by nickname of enemy radar followed by bearing in numerals)	ESM detection of enemy radar indicated on bearing
JULIETT (inferior to NEGAT)	ESM detection has ceased.

SINGLE-LETTER ACTION SIGNALS

SIGNAL	MEANING
LIMA	FIRE CHAFF () (bearing) (range). 1. Charlie (confusion) 2. Delta (distraction) 3. Foxtrot (funnel dispersed) 4. Hotel (helicopter dispersed) 5. Sierra (seduction) 6. As previously directed
MIKE	Close range on enemy.
NOVEMBER	Open range from enemy.
OSCAR	Fire pre-action calibration.
QUEBEC (followed by numeral)	Operate fire control radar. Illuminate target (on bearing from you).
SIERRA	Action ordered has been completed.
VICTOR	Follow movements of SAG commander in opening fire.
WHISKEY	Fire on 1. Center of enemy formation 2. Leading ship of enemy formation 3. Left of enemy formation 4. Right of enemy formation 5. The designated priority target (see SAGPOL) 6. Opposite numbers
X-RAY	Open fire as soon as possible, at maximum range.
YANKEE (followed by numeral)	Cease fire. Do not fire. I have ceased firing.

MTP 1(D), Vol. II

INTENTIONALLY BLANK

MTP 1(D), Vol. II

CHAPTER 33

TACTICAL

3300	Attack
3301	Bearing and Distance
3302	Intelligence/Data
3303	Lights
3304	Miscellaneous
3305	Mission/Task/Duty
3306	Movements
3307	Operations/Intentions
3308	Identification/Recognition
3309	Scouting/Patrol
3310	Smoke/Making Smoke
3311	Weather/Meteorology

3300 ATTACK

TA1
TA2 ATTACK (with weapon(s) or by using the method of attack indicated). Type of enemy unit(s) to be attacked may be indicated from Table F. 1. According to plan indicated following DESIG 2. Coordinated attack with this unit or unit indicated 3. Deliberate 4. In accordance with previous instructions 5. Independently 6. Repeated attacks 7. Simultaneous 8. Under smoke screen 9. Urgent 10. Weapon-carrying helicopter 11. Weapon(s) from Table A
TA3 ATTACKED. I am being attacked with Type of enemy unit(s) attacking may be indicated from Table F. 1. Biological weapons 2. Bombs 3. Chemicals 4. Guided missiles 5. Naval gunfire 6. Nuclear weapons 7. Rockets 8. Shore batteries 9. Torpedoes

TA4
TA5
TA6
TA7 SIMULATE ATTACK (with weapon(s) or by using the method of attack indicated from TA2 list).
TA8
TA9
TA10
3301 BEARING AND DISTANCE
TA11 BEARINGS AND DISTANCES 1. Relative bearings and distances are to be preserved 2. Relative bearings and distances are to be resumed 3. True bearings and distances are to be preserved 4. True bearings and distances are to be resumed
TA12 DISTANCE. Maintain present distance (or take). 1. Distance of hundred yards 2. Distance of miles 3. Double standard distance 4. Standard distance 5. Proper distance 6. One-half standard distance
TA13
TA14 DISTANCE/DIAMETER/INTERVAL is hundred yards. 1. Circle spacing 2. Distances between guides of units 3. Distance between units 4. Extended maneuvering interval 5. Interval 6. Maneuvering interval 7. Reduced tactical diameter 8. Standard distance 9. Standard tactical diameter
TA15 INTERVAL. Take 1. Extended maneuvering interval 2. Interval of hundred yards 3. Interval of hundred yards between service and waiting lines 4. Interval of hundred yards between service lines 5. Interval of thousand yards 6. Maneuvering interval 7. Proper interval

TA16
TA17 YOU BEAR from this unit or unit indicated or position indicated (distance miles).
TA18 YOUR RANGE or that of unit indicated is hundred yards from this or unit indicated.
TA19
TA20
TA21
3302 INTELLIGENCE/DATA
TA22 ATTACK EXPECTED. Attack by may be expected now (or at). Type or attacking unit may be indicated from Table F or V. 1. Aircraft 2. Missiles 3. Submarine 4. Surface vessels 5. Torpedo
TA23 ENEMY CONTACT. I have contact with enemy or unit indicated (by). 1. Radar 2. Sonar 3. Visual 4. ESM
TA24 ENEMY CONTACT. Last reported contact with enemy or unit indicated is as indicated by time and position signals following.
TA25
TA26 FRIENDLY FORCE or unit indicated is 1. Joining up (from direction indicated) (at time) 2. May be encountered (at about) (in position) 3. Operating in vicinity (or position) 4. Sighted 5. Temporarily detached
TA27
TA28 OBJECTIVE'S POSITION. Objective's last known position (or point of origin or search) is (at).
TA29 SHIPS IN COMPANY are

TA30 SIGI	1TED 1. Antiaircraft fire 2. Buoy 3. Colored water 4. Flashes of guns 5. Flare 6. Floating object 7. Glare of searchlight 8. Iceberg 9. Land 10. Lights 11. Lighthouse 12. Lightship	16. 17. 18. 19. 20. 21. 22. 23. 24.	Rocket Rocks Ships without lights Shoals Small boat Smoke Smoke bomb Starshell Star (Very's) Submarine, unidentified Survivors (number may be indicated following TACK)
	13. Oil patch 14. Reefs	26.	Wreckage
TA31			
	Γ BEARS unit or unit indic ance miles). 1. Enemy 2. Friendly 3. Neutral 4. Unidentified	ated	l bears from this or unit indicated
TA33			
TA34			
TA35			
3303 LIGHTS			
TA36 DAR	List A 1. Blue riding 2. Blue stern 3. Dimmed navigation 4. Dimmed riding 5. Float 6. Minesweep station keeping 7. Modified darken ship 8. Navigation 9. Red truck 10. Riding 11. Shaded (screen stern) 12. Side 13. Special 14. Task	A.	lights (<i>List A</i>)) ((<i>List B</i>)). **List B** During night air operations To indicate position

TA37 LIGHT SHOWING. You or unit indicated have light showing (PORT or STBD to indicate side). 1. Aft 2. Aloft 3. Amidships 4. Forward 5. Superstructure
TA38 TURN ON LIGHTS. Turn on lights. 1. In-contact flasher 2. Search 3. Submarine identification 4. Task
TA39 RIG DECEPTIVE LIGHTING.
TA40
TA41
3304 MISCELLANEOUS
TA42 ATTENTION is called to bearing
TA43 BLOW TUBES (). 1. Maneuver as necessary to blow tubes
TA44 EXPEDITE (). 1. Action 2. Answer to signal 3. Maneuver 4. Operation
TA45 NOT RELEASABLE
TA46 MAN OVERBOARD has been 1. Given up for lost 2. Picked up 3. Sighted bearing (range)
TA47 OBJECT OF SEARCH is 1. Disabled ship 2. Downed aircraft 3. Man overboard 4. Raft 5. Small boat 6. Submarine 7. Survivors 8. Torpedo 9. Wreckage
TA48 SCUTTLE/DESTROY your ship or unit indicated

TA49	49 EMPHASIZE ACTIONS by use of 1. Pyrotechnics 2. Searchlights 3. Siren	
TA50	50	
TA51	51	
3305	05 MISSION/TASK/DUTY	
TA52	52 ASSIST this unit or unit indicated	
TA53	53 ASSIST DAMAGED SHIP or ships(s) indicated	d.
TA54	54 ASSUME DUTY of or act as (from Table	D) (sector).
TA55	55	
TA56	56	
TA57	57 DETAIL A SHIP or direct ship indicated to carry the following signals Numeral(s) from T used to complete this signal. Example: TA57—60D—Dp4p7 Detail/direct D47 to act of the signal in th	able D, or another signal, may be
	Example: $1A37 = 00D = Dp4p7 \dots Detail/airect D47 to act to (TPC-A)$.	as tactical picture coordinator air
TA58	58	
TA59	59 DUTY as (from Table D) is held in this sl	nip or unit indicated.
TA60	60 DUTY COMPLETED.	
TA61	61 ESCORT STRAGGLERS. Drop astern and esc). 1. Round up stragglers	cort stragglers or ship indicated (or
TA62	4. Goblin 16. Shoa 5. Iceberg 17. Skunl 6. Land 18. Small 7. Lights 19. Smok 8. Lightship 20. Sona 9. Oil patch 21. Star (s without lights ls contact Very's) cious ship

TA63 RESCUE CREW of ship or aircraft indicated, w	hich has sunk (or is sinking).
TA64 SUPPORT this unit or unit indicated (against may be indicated from Table F or V. 1. Aircraft 2. Missile 3. Submarine 4. Surface vessel 5. Torpedo	attack). Type of attacking unit
TA65	
TA66 WITHDRAW PICKETS (). 1. From station(s) 2. From sector(s) 3. Whose call sign(s) is (are)	
TA67	
3306 MOVEMENTS	
a. General.	
TA68 BE IN POSITION (or position) at (Note to arrive in position (or position) at prescrib	NEGAT following means, "Unable ed time. Can arrive at")
TA69 CONCENTRATE Numerals following in 1. Destroyers having expended torpedoes concer 2. Destroyers having torpedoes concentrate on th 3. Concentrate in position 4. Concentrate on enemy or enemy indicated (a) Bearing from enemy (b) Distance from enemy (c) Speed required 5. Concentrate on unit indicated	ntrate on this unit or unit indicated
TA70 CONFORM TO MOVEMENTS. Conform to general indicated.	eral movements of this unit or unit
TA71 FORMATION RENDEZVOUS (POINT ROMEO of nuclear attack will bear from position Z rendezvous after bomb burst will be spee	Z distance Course of this
TA72 KEEP on to sea. 1. Beam 2. Head 3. Port bow 4. Starboard bow 5. Stern	

TA73		KEEP WITHIN RANGE. Keep within range of this unit or unit indicated. 1. Radar 2. Ultra high frequency 3. Underwater telephone 4. Very high frequency 5. Visual signaling 6 miles
TA74		
TA75		NEAR YOUR POSITION. I will be near your position at
TA76		PURPOSE OR REASON for present movement of this unit or unit indicated (or movement previously reported) is 1. Enemy-inflicted damage 2. To attack enemy
TA77		REGAIN POSITION (). 1. In formation 2. In formation when orders have been carried out
TA78		REMAIN IN POSITION. Remain in your present position (or). 1. With this unit or unit indicated 2. Wait for further orders
TA79		RENDEZVOUS (in position) (at) (with).
TA80		
TA81		
TA82		
TA83		
TA84		
b. Jo	oining/l	∟eaving/Rejoining.
TA85		CLEAR THE FORMATION or unit indicated (on course or in general direction).
TA86		 JOIN or rejoin (). 1. This unit or unit indicated (station may be indicated) 2. As leading ship of this unit or unit indicated and conform to movements of this unit 3. As rear ship of this unit or unit indicated and conform to movements of this unit 4. Formation or formation indicated when practicable, falling in astern or taking any station open 5. When conditions exist as indicated 6. When present orders have been carried out 7. Your own senior officer

TA87	LEAVE FORMATION.
TA88	PROCEED (). 1. And report for duty to (designated commander) 2. As necessary to pass through formation or to reach position indicated (at) 3. As previously directed 4. In accordance with operation order or serial number indicated 5. In company (with) 6. Independently 7. Independently into port and take berth assigned 8. Independently to assigned station 9. On duty assigned 10. Out of port 11. To 12. To anchorage 13. To attack 14. To contact area 15. To FPB laying-up position 16. To FPB waiting position 17. To foul-weather anchorage 18. To port 19. To position () 20. To recover man overboard (from) 21. To regular station 22. To rendezvous 23. To side of screen indicated by PORT or STBD 24. With dispatch 25. Without regard to formation
TA89	YOU ARE DETACHED.
TA90	
TA91	
c. M	aneuvering.
TA92	ACT INDEPENDENTLY () 1. For meteorological tasks 2. To conduct helicopter operations 3. To launch/recover VDS/towed array 4. To pass clear of ship(s) or unit indicated and resume station when clear 5. To proceed through IMCO separation zone in accordance with regulations 6. To repair damage or defects 7. To take bathythermograph readings 8. For engine testing/clearing/calibration
TA93	AVOID. Maneuver independently to avoid () attack. Type of attacking uni may be indicated from Table F or V. 1. Aircraft 2. Missile 3. Submarine 4. Surface vessel 5. Torpedo

TA94	CLOSE ME or unit indicated (to hundred yards).
TA95	CLOSE UP (). 1. Leaving places vacant for ships temporarily out of formation 2. Without regard for ships out of formation
TA96	
TA97	DISENGAGE () (on course). 1. Ahead 2. Astern 3. To port 4. To starboard
TA98	FOLLOW MOVEMENTS of this or unit indicated (or of). 1. Column leader or unit indicated in conforming to channel, by adjusting course and speed as necessary to pass over the same ground 2. OTC 3. OTC, in altering course and speed
TA99	FORM PART OF THIS UNIT or unit indicated for maneuvering purposes.
TA100	I. Ahead 2. Astern 3. Between this unit or unit indicated and contact indicated 4. Clear during maneuvers 5. In wake of this unit or unit indicated 6. Just clear of the wake of next ahead 7. Out of the way 8. To port of this unit or unit indicated 9. To starboard of this unit or unit indicated
TA101	MANEUVER your unit(s) to avoid shipping.
	MANEUVER. Circumstances connected with the maneuver just carried out are to be noted with a view to subsequent discussion in harbor.
TA103	PASS 1. Ahead of this unit or unit indicated 2. Astern of this unit or unit indicated 3. Between lines 4. Ships unable to keep station 5. Through formation 6. Through lines 7. To port of this unit or unit indicated 8. To starboard of this unit or unit indicated

TA104	RUDDER. Use rudder. 1. Degrees indicated for standard tactical rudder until further orders 2. Emergency 3. Full (5 degrees less than maximum) 4. Less 5. Maximum (hard rudder or hard over) 6. More 7. Proper 8. Rudder as necessary to give a tactical diameter of hundred yards.
TA105	SHEER OUT (). 1. Odd-numbered ships to starboard, even-numbered ships to port 2. Odd-numbered ships to port, even-numbered ships to starboard 3. To starboard 4. To port
TA106	
TA107	
TA108	
3307 OPERA	ATIONS/INTENTIONS
TA109	NIGHT INTENTIONS. Remain during the night (or until). 1. At present speed 2. In assigned area or area indicated 3. In present formation 4. In present formation, on present course, and at present speed 5. In present disposition 6. On present base course 7. On ordered Navtrack
TA110	OPERATIONS. Commence operations (or). 1. Cease operations 2. Delay operations until further orders (or until) 3. Expedite operations 4. Operations completed
TA111	OPERATIONS. Unable to carry out operations or operation indicated due to 1. Damage 2. Decontamination in progress 3. Lack of services 4. Prior commitments 5. Weather
TA112	
TA113	
TA114	

3308 IDENTIFICATION/RECOGNITION

TA115 IDE	ENTIFY UNIT (bearing)(List B)).		(<i>List A</i>)) (using
	List A 1. County of origin 2. Class 3. Unit	List B A. Aircraft B. ESM C. Visual	
	IARACTER of contact reported ded. 1. Believed enemy 2. False 3. Friendly 4. Land 5. Lost 6. Unimportant objects (rain square) 7. Without confirmation		lesignation may be
TA117IDE	ENTITY of unit is 1. Enemy 2. Friendly 3. Neutral 4. Suspicious 5. Unknown		
TA118 RE	COGNITION. Use mean 1. ESM 2. IFF 3. Nancy 4. Radar 5. Sonar 6. Visual	ns of recognition.	
TA119			
TA120ILL	UMINATE (with) (beari 1. Searchlight (directed at 2. Starshell 3. Ship-launched pyrotechnic 4. Air-launched pyrotechnic	ng) (range). (from Table L))	
TA121			
TA122			

3309 SCOUTING/PATROL

TA123 ARE	1. Circle of radius m	niles with center in present positions tween following four positions and the miles of the miles	on (or at position),, and
	(or position) 4. Sector between ar	nd between miles and _ _ miles and depth miles ce	miles from position
TA124 EST/		H (List A) of type (List List B) A. Expanding squa B. Intercepting C. Intercepting from D. Intercepting from E. Intercepting from F. Rectangular G. Sector H. Random	t B). are m ahead m rear
TA125DIST	ANCE between units	on scouting line is mil	les.
TA126 EST/	ABLISHPATROL List A 1. AAW 2. ASW 3. ASUW 4. Multithreat	L (List A) of type List b List B A. Area B. Cross-over C. Linear D. Fixed station	B).
TA127LINE	OF BEARING of scou	uting line is	
	ER OF UNITS in scout commencing from the	ing line is as indicated by ca left.	all signs or sequence num-
TA129 PATI ted.	 Aim Type Limits of barrier line o Sequence of ships an Guide Time to start and dura Speed Assumed enemy cour Sweep width Direction and length of 	ation of patrol rse and speed f first leg; when using a crossover to (and fourth) leg and direction and stact	a parrier patrol, include direction

TA130	PATROL (using plan). 1. Anchorage 2. Boom (nets or gates) 3. Channel 4. Harbor entrance
TA131	PATROL IN VICINITY of position or between positions and
	PATROL LEG. Direction and length of leg number is degrees and miles.
TA133	REMAIN ON PATROL (or). 1. Continue search or patrol (until) 2. Rejoin your patrol 3. Resume patrol 4. Return to your station
	SCOUTING LINE OF BEARING. Scout on a line of bearing(departure time) (return time).
TA135	SCOUTING LINE. Form a scouting line on an arc in accordance with the following: (a) First true bearing from center of circle (b) Second true bearing (arc is drawn clockwise from first bearing) (c) Radius in miles (d) Number of ships on a scouting line. Center from which arc is struck is indicated by separate position signals.
†	SCOUTING LINE. Change the direction of the line of bearing of the scouting line to Course and speed of guide may be indicated by two groups of numerals following.
TA137	
TA138	SEARCH ORDERS are as indicated. Information not being passed may be omitted. 1. Aim 2. Type 3. Assumed position of enemy at a stated time, or the geographic area to be searched. 4. Limiting enemy courses and speeds for intercepting search 5. Direction of search line 6. Order of ships if other than standard 7. Track spacing 8. Guide's position at start of search 9. Time to start and duration of search 10. Course and speed 11. EMCON plan 12. Reporting procedures 13. Action on gaining contact 14. Action on completing search

TA139SPREAD 1. As previously directed 2. On line of bearing (a) Line of bearing to which ships are to spread (b) Order of ships spreading from left to right if other than the present sequence (c) Scouting axis (d) Distance apart of ships when spread (e) Guide while spreading, if other than Senior Officer (f) Course and speed of the unit guide while spread (g) Time by which the spread is to be completed
TA140 SPREAD on an arc in the order indicated. Left-hand ship in the direction of advance while spreading is to steer , right-hand ship is to steer , speed knots.
TA141 SPREAD on an arc in the quickest sequence (or sequence ordered). Ships are to keep the same distance from the target as the guide. (a) Distance apart of ships when spread (b) Bearing and range of target (c) Guide of ships spreading if other than present guide (d) In ordered sequence of ships from left to right looking toward the target
TA142 SWEEP WIDTH is miles.
TA143 TRACK SPACING is miles.
TA144
TA145
TA146
3310 SMOKE/MAKING SMOKE
TA147 DROP SMOKE FLOATS (on course) (hundred yards apart).
TA148 MAKE SMOKE (). 1. All types available except projectile 2. As little as possible 3. Chemical 4. For approximately minutes 5. Funnel 6. Less smoke 7. More smoke 8. Oil fog 9. With smoke floats or pots

TA149	SMOKE PREVIOUSLY RE 1. Being investigated 2. From a few vessels 3. From enemy 4. From enemy indicated 5. From friendly force ind 6. From friendly ships 7. From one vessel 8. From own ships 9. No longer visible		
TA150			
TA151			
TA152			
3311 WEATH	IER/METEOROLOGY		
TA153	VISIBILITY. Wait for visibil	ity conditions to improve.	
TA154	WEATHER IS SUITABLE (1. Air operations 2. Boatwork 3. Chemical warfare att. 4. Dan laying 5. Diving 6. Entering port 7. Fueling 8. Helicopter operations 9. Highline transfer 10. Influence minesweep 11. Maneuvering	12. Mechanical mi 13. Mine hunting 14. Minelaying 15. Mine recovery 16. Precision gunf 17. Pressure mine 18. Recovery of to 19. Replenishmen 20. Sonar operation	fire exercises e countermeasures orpedoes at ons
TA155			
TA156			
3312 HYDRO	GRAPHY		
TA160	OPERATIONS. I am conde a (List C) lowered/st (List A 1. Hydrographic 2. Oceanographic 3. General Survey 4. Meteorology	treamed to a depth/length List B A. Beach Survey B. Route Survey C. Area Survey	List C 1. Oceanographic Probe (lowered) 2. Magnetometer (towed) 3. Side Scan Sonar (towed)
TA161	OPERATIONS. My survey tions utilizing a (List	craft is conducting(l	_ist A) (List B) opera-
	 List A 1. Hydrographic 2. Oceanographic 	List B A. Beach Survey B. Route Survey	List C 1. Oceanographic Probe (lowered) 2. Side Scan Sonar (towed)
	3. General Survey	C. Area Survey D. Wreck/Obstruction Survey	





CHAPTER 34

SUPPLEMENTARY TABLES

3400	Table A — Ammunition and Weapons
3405	Table B — Battle
3410	Table C — Command Plans
3415	Table D — Duty
3420	Table E — Electronics
3425	Table F — Forces
3430	Table L — Compartment Locator
3435	Table M — Mines
3440	Table P — Personnel
3445	Table U — Equipment
3450	Table V — Aircraft
3455	Table W — When
3460	Table X — Exercises
3465	Table Y — MCM Equipment
3470	Table Z — Beach

NOTE

- 1. The supplementary tables are primarily intended to expand the meaning of certain basic groups, but they may be used with any signal from this publication. When adding an item from the supplementary tables to the basic group as indicated in its meaning, the letter identifying the table must follow the item number. When a signal from the supplementary tables is used with a basic group which contains alphabetical letters in the suffix, or when alphabetical letters complete the basic group, the governing group, BV, must precede the supplementary table signal in cases where confusion could exist. When a signal from the supplementary tables is used by itself, the governing group, BV, must precede it.
- 2. In all tables, spare numbers or additional numbers may be used for local assignment.

3400 TABLE A — AMMUNITION AND WEAPONS

(See NOTE, page 34-1, for details of use.)

1 — 19. Not to be used; allocated for use in action tables and ASW attack and support methods.

SURFACE TO AIR

- 20. Missile, long-range (over 50 miles)
- 21. Missile, medium-range (10 to 50 miles)
- 22. Missile, short-range (under 10 miles)
- 23. Chaff, distraction
- 24. Chaff, confusion
- 25. Chaff, seduction
- 26. Inrared decoys
- 27. Antiaircraft
- 28. _____ 29. ____

SURFACE TO SURFACE

- 30. Missile, over-the-horizon range or long-range (over 20 miles)
- 31. Missile, to-the-horizon range or short-range (below 20 miles)
- 32. Illuminant

- 33. Torpedo, antiship
- 34. High effect
- 35. Semi-armour piercing
- 36. Small arms
- 37. Direct action
- 38. Medium-caliber guns
- 39. Small-caliber guns

SURFACE TO SUBSURFACE

- 40. Torpedo, helicopter-launched
- 41. Torpedo, ship-launched
- 42. Torpedo, rocket-launched
- 43. Torpedo, fixed-wing aircraft-launched
- 44. Depth charge
- 45. Mine disposal charge
- 46. Mine disposal weapon
- 47. Mortar
- 48. Scare(ing) charge
- 49. Hedgehog
- 50. Nuclear depth bomb
- 51. Rocket-thrown depth charge

3405 TABLE B — BATTLE

(See NOTE, page 34-1, for details of use.)

31. Engage more closely

1 — 9. Not to be used.

		32.	Engage from widely different bearings
10.	Assist units engaged in scouting	33.	Investigate and board if necessary
11.	Attack	34.	Movements. Report movements of
12.	Attack at once		enemy
13. 14.	Attack independently Attack. Make night attack	35.	Night Attack. Deliver night attack on objective after contact
15.	Attack or trail at discretion	36.	Offensively. Operate offensively
16.	Attack when conditions are favorable	37.	Prevent enemy escaping
17.	Avoid action	38.	Protectively. Operate protectively
17. 18. 19.	Concentrate and attack Contact and attack	39.	Retire toward own main body or as planned
20.	Contact and attack Contact. Maintain contact and report	40.	Screen. Penetrate screen
21.	Contact: Maintain contact and report Contact. Orders will be given after contact is made	41.	Screen. Prevent enemy penetrating screen
22.	Contact. Report contact	42.	Shadow objective
23.	Contact. Report contact only with designated objective	43.	Shadow and make night attack if conditions are favorable
24.	Contact. Report contact and await further orders	44.	Shadow and report movement of enemy
25.	Defensively. Operate defensively	45.	Support vessels being attacked
26.	Delay enemy	46.	Support vessels indicated
27.	Delaying. Employ delaying tactics in avoiding decisive action	47.	Supporting. Remain within supporting distance (of task force desig-
28.	Drive off enemy scouts	40	nated)
29.	Enemy. Keep enemy on present	48.	Track
	bearing (or on bearing)	49.	
30.	Engage enemy	50.	

3410 TABLE C — COMMAND PLANS

(See NOTE, page 34-1, for details of use.)

	(See NOTE,
1 –	- 9. Not to be used.
10.	AA coordination plan
	AAW plan
	Administrative plan
	Air attack plan
	Air cruising plan
	Air operations plan
	Air patrol plan
	Alternate plan
	Antiaircraft fire plan
	Anti-small boat plan
	Anti-suicide boat search plan
	Approach plan
	Area screening plan
	Arming plan
	Assault plan
	Attack plan
	Base defense plan
	Base occupation plan
28.	• .
29.	
30.	0 1
31.	•
32.	
33.	•
34.	•
35.	•
36.	
37.	
38.	•
39.	Departure plan
40.	Direction finder plan
41.	Dispersal plan
42.	Embarkation plan
43.	Entrance order
44.	Entrance plan
45.	Exercise plan
46.	Fueling plan
47.	Heavy weather plan
48.	Illumination plan

49. Intelligence plan

for det	tails of use.)
50.	Interference plan
51.	Landing force plan
52.	Loading plan
53.	Logistics plan
54.	Medical plan
55.	
56.	Mining/minelaying order
57.	(Not to be used)
58.	(Not to be used)
59.	Movement plan
60.	Naval gunfire support plan
61.	Observation plan
62.	Operation order
63.	Operation plan
64.	Patrol order
65.	Patrol plan
66.	Planning memoranda
67.	Protective plan
68.	Pursuit plan
69.	Radio search plan
70.	Relief aircraft spotting plan
71.	Replenishment plan
	Retirement plan
73.	Scouting order
74.	Scouting plan
75.	Screen plan
76.	Search plan
77.	Ship-to-shore plan
78.	Shore bombardment plan
79.	Smoke plan
80.	Smoke screen plan
81.	Smoking plan
82.	Sneak attack plan
83.	Sortie plan
84.	Spotting plan
85.	Strategic plan
86.	Surface action plan
87.	Tactical plan
88.	Torpedo plan
00	Tarnada agatar attaak plan

89. Torpedo sector attack plan

90. Withdrawal plan

3415 TABLE D — DUTY

(See NOTE, page 34-1, for details of use.)

1 — 9. Not to be used.

NOTE

For standby duties, use (S) when promulgating the duty list.

COMMAND

- 10. Officer in tactical command (OTC)
- Composite warfare commander (CWC)
- 12. Screen commander (SC)
- 13 19. Spare

ANTIAIR WARFARE (AAW)

- 20. AAW commander (AAWC)
- 21. Sector AAW coordinator (SAAWC)
- 22. Local AAW coordinator (LAAWC)
- 23. AAW picket (WATCHDOG)
- 24. TOMCAT
- 25 29. Spare

ANTISUBMARINE WARFARE (ASW)

- 30. ASW commander (ASWC)
- 31. Sector ASW commander (SASWC)
- 32. Local ASW commander (LASWC)
- 33. Search and attack unit commander (SAUC)
- 34. SSN link ship
- 35. Submarine element coordinator (SEC)
- 36 39. Spare

ANTISURFACE WARFARE (ASUW)

- 40. ASUW commander (ASUWC)
- 41. Sector ASUW commander (SASUWC)
- 42. Surface action group commander (SAGC)
- 43. Helicopter attack group commander (HAGC)

- 44. Senior officer FPBs (SOFPB)
- 45. ASUW picket
- 46 49. Spare

ELECTRONIC WARFARE (EW)

- 50. EW coordinator (EWC)
- 51. Chaff guard ship
- 52. COMSEC guard ship
- 53. EMCON guard ship
- 54. Duty fire control ship
- 55 59. Spare

AMPHIBIOUS WARFARE

- 60. Supporting arms coordination center (SACC)
- 61. Tactical air coordination center (TACC)
- 62. Primary control ship (PCS) (specify beach color)
- 63. Secondary control ship (specify beach color)
- 64. Helicopter control ship (HCS)
- 65. Helicopter direction center (HDC)
- 66. Boat haven (specify beach color)
- Primary casualty receiving and evacuation control ship (PCRS)
- 68. Secondary casualty receiving and evacuation control ship (SCRS)
- 69. Central control ship (CCS)
- 70. Direct support naval gunfire support ship (DSNGSS)
- General support naval gunfire support ship (GSNGSS)
- 72 79. Spare

DATA COMPILATION

- 80. Force track coordinator (FTC-A)
- 81. Force track coordinator subsurface (FTC-SS)
- 82. Force track coordinator surface (FTC-S)
- 83. Grid reference unit (GRU)
- 84. Link 11 data net control station (L11 DNCS)
- 85. Link 11 broadcast unit (L11BU)
- 86. Link 4 control unit (L4CU)
- 87. Link 14 broadcast unit (L14BU)
- 88. DLRP transmit unit (DLRPTRU)
- 89. Link 11 to Link 11 gateway (L11GWAY)

MULTILINK MANAGEMENT

- 800. Multilink manager (MLM)
- 801. Track data coordinator (TDC)
- 802. Regional track data coordinator (RTDC)
- 803. Sector track data coordinator (STDC)
- 804. Interface control officer (ICO)
- 805. Joint interface control officer (JICO)
- 806. Regional interface control officer (RICO)
- 807. Combined interface control officer (CICO)
- 808. Sector interface control officer (SICO)
- 809. Change data order authority (CDOA)

MIDS DUTIES

- 810. MIDS network management station (JNETMAN)
- 811. MIDS sub network management station (JSUBNETMAN)
- 812. Net time reference unit (NTR)
- 813. MIDS relay unit (MRLYU)

- 814. MIDS net control station (MNCS)
- 815. Initial entry MIDS unit (IEJU)
- 816 819. Spare

LINK 16 DUTIES

- 820. Link 16 change data authority (L16CDA)
- 821. Link 16 navigation controller (NC)
- 822. Link 16 secondary navigation controller (SECNC)
- 823. Link 16 data forwarding unit Link 11 (FJUA)
- 824. Link 16 data forwarding unit Link 11B (FJUB)
- 825. Link 16 data forwarding unit Link 11A/B (FJUAB)
- 826. Link 16 position reference (L16PR)
- 827. Link 16 cryptonet manager (L16CRYPT)
- 828.
- 829.

IJMS DUTIES

- 830. IJMS change data authority (ICDA)
- 831 899. Spare

LINK 22 DUTIES

- 840. L22 super network manager (NSNMU)
- 841. L22 forwarding unit A to Link 11 and Link 16 (FNUAJ)
- 842. L22 forwarding unit B to Link 11 and Link 11B (FNUAB)
- 843. L22 net management unit (NNMU)
- 844. Relay nile unit (RLYNU)
- 845. L22 late net entry support unit (LNESU)
- 846 899. Spare

MINE WARFARE 221. Net control station (NCS) (circuit/line 90. Mine Warfare Coordinator 222. Officer conducting exercise (OCE) 91 — 99. Spare 223. Officer conducting serial (OCS) 224. Physical barrier (between unit indi-AIR COORDINATION/CONTROL cated and unit bearing) 225. Radar quard ship 100. Air coordinator (AC) 226. Radar picket 101. Force marshaller (FM) 227. RADHAZ relay 102. Air resource element coordinator 228. Radio link (on circuit) (AREC) 229. Ready duty ship 103. Helicopter element coordinator (HEC) 230. Receiving ship 104. Helicopter control unit (HCU) 231. Recovery ship 105. ASW aircraft control unit (ASWACU) Replenishment unit quide 232. 106. AAW aircraft control unit (AAWACU) 233. Rescue destroyer (station number 107. Attack aircraft control unit (AACU)) (duration of duty 108. AEW control unit (AEWCU) (unit on which to take station may be 109. Aircraft control unit (ACU) indicated). Rescue destroyer is to 110. Air safety cell (EAGLE) take station when carrier indicates 111. Air safety contact cell (FALCON) readiness to operate aircraft. 112 — 119. Spare 234. Scene of action commander (SAC) 235. Search and rescue (SAR) ship 236. Senior Officer Present Afloat (SOPA) **SPECIAL DUTIES** 237. Tacan guard 200. Airstrike safety ship (SAFETY CELL) 238. Target ship Ballistic wind-finding guard ship 201. 239. **Tattletale** 202. Bathythermographic guard 240. Towing ship 203. Consort 241. Underway replenishment group 204. Control ship commander (URGC) 205. Deception group commander (DCGC) 242. Unit responsible for surfacing the 206. Delivering ship submarine 207. Disabled ship 243. Visual communication duty ship for 208. **Duty carrier** ship alongside (or for ____) 209. Emergency landing carrier 244. Visual link between ships indicated 210. Firing ship 245. Weapon-carrying helicopter standby 211. Flank marking or rake ship 212. Goalkeeper on HVU or unit indicated 246. Weather balloon tracking ship 213. Hose ship 247. 214. IFF guard ship 248. 215. Illuminating ship 249. Main body group commander (MBGC) 216. 250. 217. Man-overboard recovery ship 218. Medical guard 219. Meteorological guard

220.

Military guard

3420 TABLE E — ELECTRONICS

1 –	- 9. Not to be used	49.	Navigation, inertial
		50.	Navigational radar
	TYPE OF EQUIPMENT	51.	Power Supply
40		52.	Radar
10.		53.	Receiver
11.	9	54.	Satellite communications
12.		55.	Satellite navigation
13.	9 1	56.	Secure communications
14.	Airborne communications	57.	Secure voice communications
15.		58.	Sonar, attack
16.	9	59.	Sonar, depth-determining
17.	Antenna	60.	· · · · · · · · · · · · · · · · · · ·
18.	Approach radar	61.	-
19.	Command, control and information	62.	
00	system (CCIS)	63.	-
20.	Communications	64.	-
21.	•	65.	
22.	Computer, tactical data system	66.	
23.	D/F	67.	Surface search radar
24. 25		68.	Tacan
25. 26.	Electro-optical EPM	69.	Teletype/RATT
20. 27.	ESM	70.	Towed array
		71.	Transceiver
20. 29.	ESM analyzer Facsimile	72.	Transmitter
30.		73.	UHF communications
31.		74.	UHF homer
32.		75.	Underwater communications
33.	HF communications	76.	VHF communications
34.	IFF interrogator	77.	VHF homer
35.	IFF/SIF	78.	VML (voice modulated light)
36.		79.	
	LF communications	80.	
38.	LF homer	81.	
39.	Link 10		
40.	Link 11		ECM TECHNIQUES/DEVICES
41.	Link 14	82.	Barrage jamming
42.	Message handling system	83.	Blip enhancer
43.	Meteorological	84.	Countdown
44.	MF communications	85.	Decoy
45.	Missile control radar	86.	Distraction
46.	Nancy	87.	False target generator
47.	Nancy point of train (POT) light	88.	Inverse gain
48.	Navigation	89.	Range gate pull-off
	<u> </u>		- 3- 3 p 2

90.	Seduction	109.	Frequency band in GHz, whose
91.	Spot jamming		lower and upper limits are and
92.	Swept audio	4.40	 ·
93.	Swept jamming	110.	Frequency of kHz
94.	Track breaker	111.	· · · ——
95.	Velocity gate pull-off	112.	Frequency of GHz
96.	Chaff	113.	A band (0-250 MHz)
97.	Chaff Charlie	114.	B band (250-500 MHz)
98.	Chaff Delta	115.	C band (500-1000 MHz)
99.	Chaff Sierra	116.	D band (1000-2000 MHz)
	Wobbulation	117.	E band (2000-3000 MHz)
101.		118.	F band (3000-4000 MHz)
		119.	G band (4000-6000 MHz)
	POLARIZATION	120.	H band (6000-8000 MHz)
		121.	I band (8000-10,000 MHz)
102.	Circular	122.	J band (10,000-20,000 MHz)
103.	Horizontal	123.	K band (20,000-40,000 MHz)
104.	Random	124.	L band (40,000-60,000 MHz)
105.	Vertical	125.	M band (60,000-100,000 MHz)
106.		126.	Line number
107.	Frequency band in kHz, whose	127.	
	lower and upper limits are and	128.	
	·	129.	
108.	Frequency band in MHz, whose	130.	
	lower and upper limits are and	100.	

3425 TABLE F — FORCES

1 –	- 9. Not to be used.	49.	Forces making or about to make torpedo attack
10.	Antiair warfare force (group)	50.	Forces repelling or about to repel
11.	Air search attack unit (ASAU)	00.	torpedo attack
12.	Aircraft	51.	Formation
13.	Aircraft carrier(s)	52.	Frigate(s)
14.	Amphibious force (group)	53.	Fueling (replenishing) group
15.	Amphibious vehicle(s)	54.	Goblin
16.	Assault craft	55.	Guide, disposition
17.	Attack group (unit)	56.	Guide, formation
18.	Auxiliaries	57.	Guide, unit
19.	Barrier patrol	58.	Guided missile ship(s)
20.	Bogey	59.	Helicopter action group (HAG)
21.	Bombardment group(s)	60.	Inshore patrol
22.	Carrier task group(s)	61.	Investigating ship
23.	Center (forces in the center)	62.	Landing craft
24.	Center (of own disposition)	63.	Leading ship of enemy column
25.	Center (of enemy's disposition)	64.	Light group(s)
26.	Close covering group	65.	Main body
27.	Communication linking ship (unit)	66.	Man-of-war
28.	Consort for submarine(s)	67.	Marker
29.	Control vessel	68.	Merchant ship
30.	Convoy	69.	Mine countermeasures vessel
31.	Convoy escort		(MCMV) group
32.	Cruiser(s)	70.	Minehunter
33.	Cruiser(s), AA	71.	Minelayer
34.	Cruiser(s), heavy	72.	Minelayer group
35.	Cruiser(s), light	73.	Minesweeper
36.	Demonstration group	74.	Missile-firing fast patrol boats (FPBs)
37.	Destroyer(s)	75.	Mobile inshore undersea warfare
38.	Destroyer escort(s)	70	surveillance unit (MIUWSU)
39.	Detached force (group)	76.	Naval beach group
40.	Disabled ship	77.	Offshore patrol
41.	Disposition	78.	Oiler(s)
42.	Escort(s)	79.	Patrol vessel(s)
43.	Explosive ordnance disposal (EOD)	80.	Picket(s)
	teams	81.	Picket line
44.	Farthest column	82.	Picket, radar
45.	Fast patrol boats (FPBs)	83.	Picket, tomcat
46.	Firing group	84. 95	Picket, watchdog
47.	Forces ahead/advance force	85.	Protective group
48.	Forces engaging light forces (or	86. 87.	Racket designation indicated
	interfering with attack)	01.	Raiding group

88	B. Rear (forces in the rear)	120.	Ships engaged in ASW action
89	Reconnaissance group	121.	Ships that have fallen behind
90). Rescue destroyer	122.	Shore batteries
91	. Rescue force (group)	123.	Skunk
92	2. Rescue ship	124.	Special rescue ship
93	9	125.	•
94	l. Rocket-launching	126.	SSM ships
95	5. SAM ships	127.	Striking force (group)
96	S. Scout(s)	128.	Submarine(s), diesel-electric
97	 Scouting group 	129.	Submarine(s), nuclear
98	B. Screen	130.	Support force (group) (ships)
99	D. Screen, AAW	131.	Surface action force
100). Screen, advanced	132.	Surface action group (SAG)
101	. Screen, anti-destroyer	133.	Surface groups
102	•	134.	Suspicious ship(s)
103	B. Screen, antisubmarine	135.	Tactical deception unit(s)
104	. Screen, departure	136.	Target group(s) unit(s)
105	5. Screen, entry	137.	Torpedo-firing fast patrol boats (FPBs)
106	6. Screen, helicopter windline	138.	Torpedo-firing submarines
107	'. Screen, inner	139.	Towing ship(s)
108	B. Screen, outer	140.	Tracking group
109). Screen, sector	141.	Trailer
110	· · · · · · · · · · · · · · · · · · ·	142.	Training group
111	. Screen unit(s)	143.	Transport(s)
112	2. Search and rescue group	144.	Transport group
113	Search attack unit (SAU)	145.	Waiting line (1st)
114	. Searchers	146.	Waiting line (2nd)
115	5. Sector patrol	147.	Waiting line (3rd)
116	6. Service group (unit)	148.	
117	'. Service line (1st)	149.	
118	3. Service line (2nd)	150.	
119	9. Shadower		

3430 TABLE L — COMPARTMENT LOCATOR

1 –	– 9. Not to be used.	27.	Laundry
		28.	Machinery control room
10.	After deck	29.	Magazine
11.	Auxiliary machinery compartment	30.	Mast structures
12.	Boiler room	31.	Messdeck (number)
13.	Bridge	32.	Operations room
14.	Cafeteria	33.	Radar room
15.	Chart room	34.	Radio room
16.	CO's cabin	35.	Sickbay
17.	Communications control room	36.	Steering gear compartment
18.	Computer room	37.	Store rooms (number)
19.	Deck spaces	38.	Superstructure
20.	Engine room	39.	Wardroom
21.	EW control compartment	40.	
22.	Flight deck	41.	
23.	Fore deck	42.	
24.	Gyro room	43.	
25.	Hangar	44.	
26	Hull	45	

3435 TABLE M — MINES

9. Not to be used.	28.	Ground
	29.	Homing
Acoustic (active)	30.	Magnetic
Acoustic (passive)	31.	Magnetic induction
Acoustic (subsonic)	32.	Magnetic needle
Acoustic (sonic)	33.	Mine-like decoy
Acoustic (suprasonic)	34.	Mobile
Antennae	35.	Moored
Bouquet	36.	Obstructors
Combination	37.	Oscillating
Contact	38.	Pressure
Controlled	39.	Remoored
Deep-laid	40.	Self-propelled
Drifting	41.	Snagline
Drill	42.	Thermal delay
Dummy	43.	Unknown
Equipped with delayed arming	44.	Anti-invasion
Equipped with delayed rising	45.	Anti-landing
Equipped with ship counter	46.	
Exercises	47.	- <u></u>
	Acoustic (active) Acoustic (passive) Acoustic (subsonic) Acoustic (sonic) Acoustic (suprasonic) Antennae Bouquet Combination Contact Controlled Deep-laid Drifting Drill Dummy Equipped with delayed arming Equipped with delayed rising Equipped with ship counter	Acoustic (active) 30. Acoustic (passive) 31. Acoustic (subsonic) 32. Acoustic (sonic) 33. Acoustic (suprasonic) 34. Antennae 35. Bouquet 36. Combination 37. Contact 38. Controlled 39. Deep-laid 40. Drifting 41. Drill 42. Dummy 43. Equipped with delayed arming 44. Equipped with delayed rising 45. Equipped with ship counter 46.

3440 TABLE P — PERSONNEL

1 –	– 9. Not to be used.	45.	Officer of the watch
		46.	Officer under training
	OFFICERS	47.	Operations officer
10	AIC officer	48.	OTC
10.		49.	Padre
11. 12.	Air force officer	50.	Personnel officer
	Air officer	51.	Radiological officer
13.	Air wing/general commander	52.	Recreation-athletics officer
14.	Antiair warfare officer	53.	Shore patrol officer
15.	Antisurface warfare officer	54.	Supply officer
16.	Army officer	55.	Torpedo officer
17.	ASW officer	56.	Watch officer
18.	Aviation officer (senior naval)	57.	Weapons officer
19.	Chaplain	58.	
20.	Chief of staff	59.	
21.	CIC officer		
22.	Combat cargo officer		RATINGS/ENLISTED MEN
23.	Command duty officer	00	
24.	Commanding officer	60.	Administrative personnel
25.	Communication officer	61.	ASW personnel
26.	Countermeasures officer	62.	Aviation personnel
27.	Damage control officer	63.	•
28.	Dental officer	64.	Damage control personnel
29.	Disbursing (pay) officer	65.	Divers
30.	Diving officer	66.	Dutymen
31.	Electronics officer	67.	•
32.	Engineer officer	68.	Gunnery personnel
33.	Executive officer	69.	Junior ratings/rank
34.	First lieutenant	70.	Libertymen
35.	Flag lieutenant	71.	Marine personnel
36.	Flag officer	72.	Propulsion personnel
37.	Guard officer	73.	Radar plot personnel
38.	Gunnery officer	74.	Seamen
39.	Logistics officer	75.	Senior ratings
40.	Medical officer	76.	•
41.	Navigation officer	77.	Sonar personnel
42.	OCE	78.	Supply and secretariat personnel
43.	OCS	79.	
44.	Officer commanding marines	80.	

3445 TABLE U — EQUIPMENT

1 —	- 9. Not to be used	39.	Generator, main
		40.	Helicopter hauldown
		41.	Log
10.	Active rudder	42.	Mount, gun, AA
11.	Air compressor	43.	Mount, gun, main
12.	Anchor windlass/capstan	44.	Mount, rocket, chaff
13.	Assault craft	45.	Mount, rocket, illuminating
14.	Automatic pilot	46.	Noisemaker
15.	Bathythermograph/bathycelerimeter	47.	Optical
16.	Boat	48.	Pitch control
17.	Boiler	49.	Plotting table
18.	Bow ejectors	50.	Propeller
19.	Catapult	51.	Pump
20.	Compass, gyro	52.	Rudder
21.	Compass, gyro magnetic	53.	SAM battery
22.	Compass, magnetic	54.	Shaft, main propulsion
23.	Compression chamber	55.	Shaft, port/starboard
24.	Compression chamber, multiplace	56.	Ship's task lights
25.	Constant tension gear	57.	Signaling lights
26.	Davit/boom	58.	SSM battery
27.	Day shapes	59.	Stabilization
28.	Degaussing	60.	Station, replenishment
29.	Derrick/crane	61.	Steering, gear
30.	Director	62.	Switchboard, electrical
31.	Diving	63.	Torpedo tubes
32.	Elevator	64.	Ventilation
33.	Engine, cruise	65.	Washdown equipment
34.	Engine, main	66.	Winch
35.	Evaporator	67.	
36.	Gastight citadel	68.	
37.	Gearing, main propulsion	69.	
38.	Generator, auxiliary	70.	

3450 TABLE V — AIRCRAFT

1 –	- 9. Not to be used.	51.	9 1
10	A avial minkata	52.	Inner air patrol
10. 11.	Aerial pickets AEW aircraft	53.	Interceptor
		54.	Intermediate air patrol
12. 13.	Air search attack unit (ASAU)	55. 56.	Jet Land-based
13. 14.	Aircraft	50. 57.	
14. 15.	Aircraft carrier(s) Aircraft forced down	57. 58.	•
	Aircraft on board	59.	, ,
17.	Amphibious vehicle	60.	Mine countermeasures helicopter
18.	Antisubmarine patrol	61.	Mine countermeasures hericopter Mine countermeasures hovercraft
19.	ASM-carrying helicopter	62.	Minelaying
20.	Assault/transport helicopter	63.	Night strike group
21.	ASW aircraft	64.	Observation
22.	ASW aircraft, carrier-based	65.	Outer air patrol
23.	ASW aircraft, shore-based	66.	Own aircraft
24.	•	67.	
25.	ASW weapon-carrying helicopter	68.	
26.	Attack	69.	Pickets
27.	Attacking	70.	Pilotless
28.	Automatic relay	71.	Pluto
29.	Bombing	72.	Probe
30.	Camera observation	73.	Radar picket
31.	Carrier-based	74.	Reconnaissance
32.	Combat air patrol (CAP)	75.	Relief spotting
33.	Communication linking	76.	Rescue
34.	Dawn and dusk patrol	77.	Returning
35.	Defensive fighters	78.	Rocket-carrying
36.	Depth charge alert	79.	Scouting helicopter
37.	Dive bombers	80.	,
38.	Drone	81.	•
39.	Dumbo	82.	Search
40.	Enemy	83.	Search and rescue
41.	EW aircraft	84.	Search helicopter
42.	EW helicopter	85.	Single engine
43.	Experimental	86.	Smoking
44.	Fighting	87.	Sortie
45.	Float type	88.	Spotting (gunnery)
46.	Gunnery spotting	89.	Strange circust
47.	Helicopter(s)	90.	Strange aircraft
48. 40	Hospital	91.	Strike /reconnections as sirereft
49.	Hunter/Killer	92. 93.	Strike/reconnaissance aircraft
50.	Illuminating	ჟა.	Suicide aircraft

MTP 1(D), Vol. II

94.	Support aircraft	100.	Unidentified aircraft
95.	Target air patrol	101.	Upper air data
96.	Target dawn and dusk	102.	V/STOL
97.	Target night patrol	103.	Weather reconnaissance
98.	Torpedo	104.	
99.	Transport	105.	

3455 TABLE W — WHEN

(See NOTE, page 34-1, for details of use.)

1 –	9. Not to be used.	51.	Noon
		52.	On arrival (at)
10.	After	53.	On completion (serial/exercise/event
11.	After air operations now in progress		number may be indicated following
12.	After completing current operations		DESIG)
13.	After completing today's air operations	54.	On completing replenishment
14.	After event number	55.	On entering harbor
15.	After next air operations	56.	On entering the contact area
16.	Afternoon	57.	On entering torpedo danger area
17.	After serial number		(TDA)
18.	As previously directed	58.	On gaining sonar contact
19.	As soon as convenient	59.	On joining
20.	At earliest possible moment	60.	On leaving harbor
21.	At earliest suitable moment	61.	On passing reference point
22.	At first light tomorrow	62.	On passing the furthest-on circle
23.	At same time as	63.	Own aircraft have gained control of the
24.	At the commencement		air
25.	At the time of	64.	Own destroyers attack
26.	Before	65.	Own units designated have com-
27.	Conditions are favorable		pleted attack
28.	Dawn	66.	Own units designated have
29.	During		launched attack
30.	During aircraft movements on deck	67.	Position (all forces are in favorable)
31.	During decontamination	68.	Position (attack groups are in)
32.	During period of flight operations	69.	Position (you or units designated are
33.	During the delay/postponement		in favorable)
34.	During the delay/postponement During the night	70.	Prior to next air operations
3 4 .	Dusk	71.	Reinforcements arrive
		72.	•
36.	Enemy destroyers attack	73.	Smoke screens are laid (refers to
37.	Enemy follows our retirement		own smoke screens)
38.	Enemy is detected	74.	
39.	Enemy is disorganized	75.	Sunrise to sunset
40.	Enemy is sighted	76.	Sunset
41.	Enemy reaches our minefield	77.	Sunset to sunrise
42.	Enemy retires	78.	Until
43.	Enemy still in sight	79.	Until further orders
44.	Enemy turns away	80.	Upon anchoring (mooring)
45.	Evening	81.	Upon clearing channel
46.	First light	82.	Upon completion
47.	Forenoon	83.	Upon getting underway
48.	Hourly (or every hour)	84.	When directed
49.	Morning	85.	When ready
50.	Necessary		

3460 TABLE X — EXERCISES

(See NOTE, page 34-1, for details of use.)

Note: Second substitute preceding numeral(s) and table identifying letter "X" indicates the signal is for general information and that the originator is carrying out the exercise indicated.

1 - 9. Not to be used.

- 10. Abandon ship
- 11. Amphibious
- 12. ASW
- 13. Aviation
- 14. CIC
- 15. Collision
- 16. Coming alongside
- 17. Communication
- 18. Damage control
- 19. Diving incidents
- 20. Dry hookups
- 21. Emergency breakaway
- 22. Emergency drills
- 23. Emergency flying stations
- 24. Engineering
- 25. Engineering casualty control drills (which affect the speed of the ship)
- 26. Engineering economy trial
- 27. Engineering full power trial
- 28. Fire
- 29. Flaghoist drill
- 30. Flashing light
- 31. General drill
- 32. General quarters

- 33. Gunnery (AA)
- 34. Gunnery (surface)
- 35. Helicopter deck landings
- 36. Individual ship exercises
- 37. Leapfrogs
- 38. Low-visibility piloting
- 39. Man overboard
- 40. Mine warfare
- 41. Mooring
- 42. Nancy
- 43. Non-delaying emergency drills
- 44. Officer of the watch/officer of the deck maneuvers
- 45. Radar calibration drill (run number
- 46. Replenishment approaches without passing gear
- 47. Rescue
- 48. Seamanship
- 49. Semaphore
- 50. Serial No
- 51. Shore bombardment
- 52. Small arms familiarization
- 53. Steering breakdown
- 54. Tactical maneuvers
- 55. Torpedo
- 56. Towing
- 57. Verification muster
- 58. Watch drill
- 59.
- 60.
- 61.

3465 TABLE Y — MCM EQUIPMENT

(See NOTE, page 34-1, for details of use.)

- Note: 1. Use the group from this table to supplement any group from the preceding chapters.
 - 2. If it is necessary further to identify equipment, specify by adding DESIG and the appropriate type number or maker's name.

1 -	- 9. Not to be used.	45.	•
10	Anahar	46. 47.	•
10. 11.	Anchor	47. 48.	, I
12.	Buoy Buoy don	40. 49.	•
12. 13.	Buoy, datum	49. 50.	,
13. 14.	Buoy, datum Buoy, master reference	50. 51.	
15.	Buoy, position marker	51. 52.	•
16.	Buoy, short scope	52. 53.	1.7
17.	Cable	53. 54.	Sweep, acoustic combined
18.	Cable, reel	55.	Sweep, acoustic combined Sweep, acoustic explosive
19.	•	56.	Sweep, acoustic explosive
20.	Charge, mine disposal Cutter	50. 57.	Sweep, acoustic Er Sweep, acoustic monitor
21.	Cutter, end	57. 58.	Sweep, acoustic monitor Sweep, acoustic oscillator
22.	•	56. 59.	Sweep, helicopter acoustic
23.	Cutter, remotely operated vehicle	60.	Sweep, helicopter magnetic
23. 24.	Cutter, static	61.	Sweep, helicopter mechanical
2 4 . 25.	Diaphragm	62.	Sweep, hovercraft acoustic
26.	Diverter	63.	Sweep, hovercraft magnetic
27.	Electrode	64.	Sweep, hovercraft magnetic
28.	Flag	65.	Sweep, magnetic closed loop
29.	Float	66.	Sweep, magnetic electrode
30.	Kite/depressor	67.	Sweep, magnetic open loop
31.	Lamp	68.	Sweep, magnetic solenoid
32.	Line	69.	Sweep, mechanical antenna
33.	Marker	70.	•
34.	Mine disposal vehicle	71.	1.7
35.	Otter	72.	1.7
36.	Pellets	73.	
37.	Radar reflector	74.	1,
38.	Remotely operated vehicle	75.	1 /
39.	Rope	76.	Sweep, protection combination (me-
40.	Rubber mooring		chanical/influence)
41.	Sinker	77.	Swell recorder
42.	Sonar, hand-held	78.	Weight
43.	·	79.	Wire
44.	Sonar, mine classification	80.	

3470 TABLE Z — BEACH

(See NOTE, page 34-1, for details of use.)

	Purple one
24. F	Purple two
10. Blue 25. F	Purple three
11. Blue one 26. F	Red
12. Blue two 27. F	Red one
13. Blue three 28. F	Red two
14. Green 29. F	Red three
15. Green one 30. Y	Yellow
16. Green two 31. Y	Yellow one
17. Green three 32. Y	Yellow two
18. Orange 33. Y	Yellow three
19. Orange one 34. V	White
20. Orange two 35. V	White one
21. Orange three 36. V	White two
22. Purple 37. V	White three

MTP 1(D), Vol. II

INTENTIONALLY BLANK

CHAPTER 35

STANDARD POSITION INDICATORS

3500 TABLE OF MEANINGS

(See also Article 165c.)

QQ The center of the front of the main body or convoy

when not in circular formation.

TT Originator's present position.

XX.... The standard position established by the OTC on

which a search, enemy report, and so forth, is to be

based.

YY Addressee's present position.

ZZ The center of the force.

MTP 1(D), Vol. II

INTENTIONALLY BLANK

INDEX

WARNING

This index is not to be used alone to encode signals. Any instructions pertaining to the execution of the signal have been omitted and only a basic meaning is given. The basic group is listed for each signal only to assist in locating the signal on the page referred to. In most cases, the basic group requires the addition of a numeral or letter in order to convey the specific meaning. Therefore, reference must always be made to the main vocabulary chapters when encoding and decoding signals.

		Α
	Signal	Page
ABANDON (ED) aircraft, rescue personnel	EX10	14-1 21-2 21-1
ABEAM METHOD (See REPLENISHMENT)		
ABORTED ATTACK (ASW ACTION)	1D	13-19
ABSENTEE (S) indicators		2-15 11-5
ACCELERATION	(Art. 123)	1-15
ACKNOWLEDGED (ING) (MENT) expedite signals by acknowledging more promptly. separate acknowledgment required signal acknowledged signal following is acknowledged signal lantern, acknowledging day/night	Flag Y ANS Flag Y	16-3 2-8 2-10 2-8 2-11
ACORN NOT RELEASABLE lost contact, carry out ASW search plan ACORN (ASW ACTION)	1C	13-19
ACOUSTIC arrays, towed acoustic (See TOWED ARRAYS) decoys, contact is using acoustic (SURFACE ACTION)	EW45	32-12 20-5 19-5

Index-1
NATO-UNCLASSIFIED

A

	Signal	Page
emissions, cease all acoustic	MW65 1L EW2 MW91	3-5 26-15 13-20 20-1 26-17 26-19
ACT as	TA92 TA57	33-6 33-9 33-6 16-5
ACTION carried out, action is being (governing group) carried out, action is not being (governing group) commence/avoid action completed, action is (governing group) emphasize action enemy surface forces, aim of action against expedite action fight action plan, carry out action (SURFACE ACTION) report when action is completed take action (aircraft operations). take action from table (governing group) take individual avoiding action	BI SU1 BB TA49 SU2 TA44 SU19 4A BY AV28 BV	15-1 15-1 32-1 15-1 33-6 32-1 33-5 32-3 32-19 15-1 14-5 15-1 3-5
ACTIVE SONAR CONTACT (ASW ACTION)	1L	13-20
ACTUATION width for sweep	MW91	26-17
ADDRESSEE exempted addressee	Flag W	2-12 2-8 35-1
ADJUST (ING) base course	6V P CORPEN STATION I SCREEN J	7-4 30-9 7-10 5-3 9-4
station to facilitate signaling	MW40	5-3 26-12 26-17

MTP 1(D), Vol. II

		Α
	Signal	Page
ADVANCED hour is advanced	AM15	12-2 12-3 12-4
AFFIRMATIVE		2-2 30-9
AHEAD disengage ahead	TA100 EMERG M H SPEED TA103 SCREEN N	33-10 33-10 3-3 8-5 33-10 9-4 5-3
AIR defense, take loose station on carrier for air	AS96	5-5 13-16 19-5
AIRCRAFT abandon aircraft, rescue personnel		14-2 14-6
contact, aircraft holds. control (advisory/positive) of aircraft, assume cover withdrawal by aircraft. crashed, friendly aircraft. detected bearing, friendly aircraft sighted or detected bearing, hostile aircraft sighted or detected bearing, unidentified aircraft sighted or distress, aircraft in downed aircraft, object of search is. emergency, I have aircraft landing in emergency landing of aircraft, make a slick for emergency procedures harass opponent using aircraft marking unit, enemy aircraft is mine dropped by aircraft is laying operations (See FLIGHT OPERATIONS)	AV1 AM19 EMERG V AA2 EMERG A EMERG B AV7 TA47 EMERG F AV8 (Art. 1400) AV8 HA5 EN30 MW6	13-6 14-1 12-4 3-4 10-1 3-2 3-2 14-2 33-5 3-2 14-2 14-1 14-2 23-2 19-4 26-1 19-2
over-the-horizon targeting, utilize aircraft for	AV41	14-7 14-7 29-1

A

	Signal	Page
radiation hazard precautions taken on own aircraft recover aircraft, rescue personnel reported unit, enemy aircraft has rescue crew of aircraft sinking/sunk safety sectors for friendly aircraft socuting aircraft, provide scouting area, center of aircraft socuting area is circle, aircraft shadowing unit, enemy aircraft is splashed (AAW ACTION). submarine, aircraft has indicated contact with table tactical direction of aircraft unable to operate aircraft unable to operate aircraft .	AV8 EN25 TA63 AA4 AV42 AV40 AV39 EN29 7S AS31 Table V AV2 AA5	16-4 14-2 19-4 33-7 10-1 14-7 14-6 14-6 19-4 10-4 13-6 34-16 14-1 10-2 14-5
AIRCRAFT ATTACK make deliberate/urgent/vector aircraft attack	TA93 TA22 SCREEN I TA64	13-1 33-9 33-3 9-4 33-7 9-7
ALERT STATE aircraft readiness		14-6 30-4
ALONGSIDE going alongside (in port)	ED28	2-4 18-4 5-4
ALTER (ING) COURSE clear obstruction, alter course as necessary to	CORPEN K X CORPEN H CORPEN TURN K, L, M TURN J CORPEN N (Art. 134) (Art. 149)	18-5 7-6 7-6 7-10 7-9 6-4 6-4 7-6 1-21 1-39 6-4
ALTER COURSE TO COURSE INDICATED AND rotate formation axis same number of degrees and direction rotate formation axis to same true direction		7-5 7-5

Index-4
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

		Α
	Signal	Page
screen units continue patrol/maintain station	CORPEN J	7-8 7-5 7-4
AMBIENT NOISE	AS51	13-9
table	RE29 Table A RS8	22-3 30-4 34-2 31-3 32-21
ANCHOR	ED1 ED3 AD10 ED12 ED10 RE47 ED7 ED13 ED16 ED4	18-1 18-2 11-2 18-3 18-2 30-6 18-2 18-3 18-3 18-3
ANCHORAGE patrol anchorage	TA88	33-14 33-9 28-1
ANCHORING/WEIGHING ANCHOR	Flag U	2-7
ANSWER	TA44 CM11	2-10 33-5 16-3 16-3
ANTIAIR WARFARE axis is bearing, direction of AAW	FORM P CO2 CO3 RE20 TA126	4-10 4-8 17-1 17-1 30-4 33-13 33-13
ANTIHOMING TORPEDO SPEED	SPEED	8-1
ANTINUCLEAR EFFECT PRECAUTIONS	RE8	30-2

Index-5
NATO-UNCLASSIFIED

A

	Signal	Page
ANTISHIP MISSILE DEFENSE COURSE	K, L, M TURN A CORPEN	7-9 N 6-6 7-9 6-4
ANTISUBMARINE AIRCRAFT PATROLS	AV41	14-7
ANTISUBMARINE WARFARE attack (ASW ACTION) attack method, use ASW coordinator, assume command as ASW conduct attack (ASW ACTION) lights, use ASW particular degree of readiness patrol, establish ASW result of ASW attack search, establish ASW search plan (See PLAN)	AS2 CO2 CO3 1E AS52 RE20 TA126 AS62 AS6 TA124	13-9 13-1 17-1 17-1 13-19 13-9 30-4 33-13 13-11 13-2 33-13
stand by for nuclear depth charge/bomb attack		13-2 13-17
ANTISURFACE WARFARE coordinator, assume command as ASUW	CO3 RE20 TA126	17-1 17-1 30-4 33-13 33-13
NOT RELEASABLE		
APPROACH datum/contact information, approach to	AS82 Flag L	13-14 13-14 2-4 30-7
ARC form scouting line on an arc	TA140	33-14 33-15 33-15
AREA	TA123	33-13
amphibious area, operate in	MW34 TA88 AA7	12-3 26-4 33-9 10-2 26-1

Index-6
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

		A
	Signal	Page
dangerous to divers due to mines exercise area, operate in helicopter random dip within area probability, area of (SURFACE ACTION) radioactivity probably exists, area contaminated remain in area during the night search area, ship is to	EX6 AS87 3T NB1 TA109	26-19 21-2 13-15 32-16 28-1 33-11 26-19
ARRESTED, vessel is	IN9	24-2
ARRIVAL, estimated time of	NA34	27-4
ASPECT of submarine (ASW ACTION)	1K	13-20
ASSIGN (ED) (MENT) investigate datum/track, leave present assignment to investigate, leave present assignment to station assignment station, proceed independently to assigned station, take assigned	AS15 STATION S TA88	13-3 13-3 5-5 33-9 2-13 5-2
unit, you are assigned to	CO1	17-1
ASSIST (ANCE) boat in trouble on bearing	TA53 RE7 RE17	11-1 33-6 30-2 30-3 33-6
ASSISTING SHIP assume duties of assisting ship (ASW ACTION)		13-19 13-19
ASSUME command (See COMMAND) control (See CONTROL) duty	STATION F	33-6 5-3 14-1
task or type organization	CO11 RE21	17-2 17-2 30-4 30-4
ASTERN disengage astern	TA61	33-10 33-6 33-10

Index-7
NATO-UNCLASSIFIED

Α

	Signal	Page
maintain minesweeping station astern of float of next ahead my engines are turning astern	H SPEED TA103 FORM L 1X STATION B	5-5 8-5 33-10 4-7 13-22 5-3 5-4
ASTERN FUELING	SPĔED R	2-6 8-4 31-4
ATTACK	TA2	33-1
antisubmarine warfare attack (See ANTISUBMARINE WARFARE) biological attack (See BIOLOGICAL) carried out, attack is being	SU3	32-1
coordinated at time, attack is to be	TA22	32-1 33-3 30-4
over-the-horizon attack (See OVER-THE-HORIZON) proceed to attack	TA7	33-9 33-2 13-2
ATTACKING SHIP assume duties of attacking ship (ASW ACTION)		13-19 13-19
ATTENTION IS CALLED TO bearing	EMERG	33-5 3-2 11-4
AUTHENTICATION (See RADIO)		
AVOID action	TA93 SPEED R	32-1 33-9 8-4 33-10
AVOIDING ACTION, take individual	EMERG 1	3-5

NOT RELEASABLE

MTP 1(D), Vol. II

		Α
	Signal	Page
AXIS direction of axis is bearing		4-10 4-8
		В
BALLISTIC WIND direction at knots, ballistic wind is from		22-1 22-1
BARRIER aircraft barrier patrols		14-7 13-18
BASE COURSE	CORPEN B J CORPEN TURN X	7-9 7-4 7-9 6-5 33-11
resume base course, signaled speed, and zigzag together after aircraft operations		6-5 6-4
BASE SPEED	B SPEED	8-5
BATHYTHERMOGRAPH	TA92	13-4 33-9 13-4
BATTERY (IES) carry out trials or tests of battery		21-2 33-1
BATTLE TABLE	Table B	34-3
BEACH (ING) beaching conditions causeways landing beach move in off beach recall beach guard table take station from center of beach	AM4 AM1 AM12 AD27 Table Z	12-1 12-2 12-1 12-3 11-4 34-21 12-3
NOT RELEASABLE NOT RELEASABLE		

Index-9
NATO-UNCLASSIFIED

NOT RELEASABLE

В

_		
	Signal	Page
BEAR (S) (ING) (direction)	TA42 2I AS85 EMERG P FORM GM9 TA11	1-46 33-5 32-10 13-14 3-2 4-10 22-2 33-2 4-8 5-2
torpedo misfire bearing		13-2
unit bears from unit	TA32 TA17	33-4 33-3
NOT RELEASABLE NOT RELEASABLE NOT RELEASABLE NOT RELEASABLE NOT RELEASABLE		
BERTH anchor in berth assignment assignment, hoist your berth clear berth for unit moor with anchors in berth occupied, berth assigned me is. proceeding to berth secure at berth shift berth to berth/buoy	ED22 ED23 ED26 ED10 ED24 DESIG ED28	18-1 18-3 18-3 18-3 18-2 18-3 2-11 18-4 18-4
BIOLOGICAL attacked with biological weapons, I am being		33-1 28-2 19-5
BLOW TUBES	TA43	33-5
BOARDING	IN12 IN4 IN13	24-2 24-2 24-1 24-2 24-2
vessel is cooperating/not cooperating/opposing/obstructing my boarding/boarding party	IN5 IN2	24-1 24-1

MTP 1(D), Vol. II

		В
	Signal	Page
investigate small boat		11-1 11-2 33-6 11-1 33-5 24-2 24-2
refuse boat required send boat send boat sighted small boat signals (steering) suspend all boating suspend all boating tender boat (causeways)	AD5 TA30 Flag 8 AD4 AD6 AM4 AD4	2-5 2-11 11-1 33-4 2-9 11-1 11-2 12-2 11-1 33-16
BOLO/GUNLINE (towing)	6N	30-8
BOMBS attacked with bombs, I am being		33-1 30-3 10-2
BORES CLEAR	GM12	22-2
BOTTOM BOUNCE range	AS26 AS60	13-5 13-10
BOTTOM CONDITIONS	ED5	18-2
BOUNDARIES, shift sector screen	SCREEN P	9-5
BREAK lock countermeasures, enemy use of break	AM4 1Z SU3	20-3 12-2 13-22 32-1 20-1
BREAKAWAY procedure, use emergency	EMERG 6	3-5
BREAKDOWN	Flag 5 B STATION	2-9 5-7

Index-11
NATO-UNCLASSIFIED

В

	Signal	Page
BULGE the screen		9-6 9-8
BUOY (S) (See also DANBUOY, SONOBUOY) aircraft holds contact on buoys investigate buoy mine position/channel report (MCMR 1, 2, 3) secure to buoy shift berth to buoy. ship is to search round buoy sighted buoy stream fog buoy sweep with ship round buoy	TA62 MW32 MW126 ED29 ED31 MW110 TA30 NA10	13-6 33-6 26-4 26-24 18-4 18-4 26-19 33-4 27-1 26-17
C		
CALIBRATE (ION) carry out radar calibration	40	29-1 32-21 26-15
CALL SIGNS	CM38 TA128	1-8 16-6 33-13 4-10
CALLS may be dispensed with, routine/official	AD9	11-2
CANCEL (ED) all signals flying without a call are canceled	EX3	2-12 21-1 14-5
CAPSIZED BOAT	AD2	11-1
CARGO of vessel is as indicated	IN6	24-2
NOT RELEASABLE NOT RELEASABLE NOT RELEASABLE		
CARRY (IED) OUT action is being carried out (governing group) action is not being carried out (governing group)		15-1 15-1

MTP 1(D), Vol. II

		C
	Signal	Page
air plan number, carry out		13-16 13-11
ASW support method, carry out	SU3 TA57 Flag X AS99 SPEED F	13-17 32-1 33-6 2-8 13-16 8-2 6-5
CARTWHEEL disposition/formation	FORM K	4-7
CAST SHIP	ED6	18-2
CASUALTIES dispatching casualties		11-3 30-1
CAUSEWAYS	AM4	12-2
CAVITATION SPEED	C SPEED	8-1 8-5 13-11
CEASE (D) acoustic emissions, cease all	MW133 NEGAT (Art. 111)	3-5 26-28 2-12 1-6
electromagnetic emissions, cease all. fire (AAW ACTION). fire (emergency) fire (SURFACE ACTION). fire, cease surface-to-surface missile (SURFACE ACTION). fire, I have ceased surface-to-surface missile (SURFACE ACTION). firing, I have ceased (SURFACE ACTION). frequent target reporting (SURFACE ACTION) exercise/event is to cease now. laser emission operations passive search and commence active search RADHAZ/HERO exists, cease transmission run is to cease now. zigzag (see ZIGZAG)	7C EMERG 4 4C 3D 3E 4E 3O EX3 CM25 TA110 AS22 CM22	3-5 10-3 3-5 32-19 32-14 32-19 32-15 21-1 16-4 33-11 13-4 16-4 21-2

C

	Signal	Page
CEILING	<u> </u>	25-1
CENTER OF		20 .
aircraft scouting area	ZZ K FORM QQ L SCREEN	14-6 35-1 4-9 35-1 9-7 13-16
CENTER SHIP, take duty as	MW73	26-16
CEREMONY	PREP AD10	2-12 11-2
CHAFF confusion, fire chaff for (SURFACE ACTION) decoys, contact is using chaff (SURFACE ACTION) distraction/seduction, fire chaff for (SURFACE ACTION) enemy use of chaff detected fire chaff fire chaff (AAW ACTION) main body alter course for employment of chaff protection, fire shell chaff for protection, use aircraft dispensed chaff for	2R 2T EW19 EW41 7L TURN K, L, M	32-12 32-12 32-12 20-3 20-5 10-4 M 6-4 20-5 20-5
CHAIN (towing)	6R	30-9
CHALLENGE in progress/completed	IN3	24-1
CHANGE (ING) changing speed	MW68	8-5 26-15 9-5
CHANNEL buoy hunted/swept channel clear/closed/obstructed/swept clear obstruction in channel, alter course to clear of mines/mined clear of mines/searched/swept/hunted depth of channel direction of channel follow my movements in channel guide unit through swept channel	ED36 ED45 MW111 MW34 ED36 ED38 ED44	26-4 18-4 18-5 26-19 26-4 18-4 18-5 18-5

MTP 1(D), Vol. II

		C
	Signal	Page
lead down channel	MW46 MW46 MW105 TA130 MW110	18-4 26-12 26-12 26-18 33-14 26-19
entrance/end of	ED37	26-4 18-5 18-4
CHASE and recover torpedoes		32-4 32-1
CHEER SHIP CEREMONIALLY	AD10	11-2
CHEMICAL alarm	NB18 NB19 TA3 NB20 TA148 EN34	3-3 28-2 28-2 33-1 28-2 33-15 19-5 33-16
CIRCLE aircraft scouting area is circle	TA123 MW8 TA14 STATION	14-6 33-13 26-1 33-2 5-2 13-22
CIRCUIT (See RADIO)		
CIVIL VESSEL, contact is	IN1	24-1
CLEAR (ED) (ING) anchor is clear	MW34 ED26	18-1 26-4 18-3 22-2
emergency breakaway, clear all sides	CM11	3-5 16-3 33-8

C

	Signal	Page
line of fire from unit	ED9 TA100 10 AS44 EMERG C	32-3 18-2 33-10 13-21 13-8 3-2 18-5
when clear	AS65 GM8 3U GM10 MW82 IN1	33-9 13-11 22-2 32-17 22-2 26-17 24-1 24-2
CLOSE (D) attack, close and	ED56 ED36 9I SCREEN J	32-1 18-6 18-4 32-5 9-4
me or unit	SU4 EMERG 8 1X 9Z RS1	5-3 3-10 32-1 3-5 13-22 32-6 31-1 33-10
CLOUD COVER	ME2	25-1
COLLISION keep clear, you are on collision course with me	EMERG D	3-2 3-2 30-3
COLORS clear/dip/half mast/haul down/hoist/shift colors	PREP	11-2 2-12 11-2
COLUMN form column (See FORM) wheeling in single column	(Art. 143)	1-34

MTP 1(D), Vol. II

		C
	Signal	Page
COLUMN OPEN ORDER form column open order		4-6 1-34
COMBAT AIR PATROLS	AV41	14-7
COMEX TIME	AS76	13-12
COMMAND assume command	CO14 CO3 Table C CO14 AS20 AS18	17-1 17-3 17-1 34-4 17-3 13-3 13-3 32-2
COMMENCE (D) (ING) action	AS22 6H 1D SU1 EX3 GM22 TA110 EX1 MW43 EX8 6S	32-1 13-4 30-7 13-19 32-1 21-1 22-3 33-11 21-1 26-12 21-2 30-9 12-1
COMMENCEMENT, estimated time of	NA34	27-4
COMMUNICATION (S) (See also RADIO, UNDERWATER TELEPHONE) countermeasures detected, enemy communication deception, enemy communication difficulties emissions intercepted, enemy communication emissions intercepted, unauthorized friendly communication establish communications guard link, provide scouting aircraft for communication method, use communication order submarine to close for communications/come to communication depth	EW18 CM2 EW28 EM27 CM4 Flag Z AV42 CM6	20-3 20-3 16-1 20-4 20-5 16-2 2-8 14-7 16-2
plan in force	CM9	16-3

Index-17
NATO-UNCLASSIFIED

C

	Signal	Page
relay ship, act as communication	CM37 CM32 AS56 AS69 AS70 CM17	16-5 16-6 16-5 13-10 13-12 13-12 16-4 13-20
COMPANY proceed in company		33-9 33-3
COMPARTMENT LOCATOR	Table L	34-12
COMPASS CHECK	NA3	27-1
COMPLETED action is completed (governing group) aircraft/helicopters, I have completed operating attack completed attack completed (ASW ACTION) duty completed evolution or exercise completed exercise/event is completed operations completed. pre-H-hour transfers are completed repairs on equipment completed report when action is completed run completed (exercise) run completed (minesweeping).	AV26 SU3 1D TA60 Flag X EX3 TA110 AM16 RE34 BY EX8	15-1 14-4 32-1 13-19 33-6 2-8 21-1 33-11 12-4 30-5 15-1 21-2 26-12
COMPLETION, estimated time of	NA34	27-4
COMPLY with my message	CO4	17-1
COMPOSITE WARFARE COMMANDER assume command as		17-1 17-1
CONCENTRATE		32-2
fire on target (SURFACE ACTION)		33-7 32-11 32-20
CONDUCT (ED) attack (ASW ACTION)	AM4	13-19 12-2 12-4

Index-18
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

		С
	Signal	Page
exercise/event is being conducted	CO16	21-1 17-3 13-15
CONFIRM (ED) (ATION) hour is confirmed		12-2 33-12
CONFORM to movements (See MOVEMENT)		
CONFUSION antiship missile defense course for confusion	2S	6-6 32-12 6-4
CONSERVE AMMUNITION	RE29	30-4
CONTACT active sonar contact (ASW ACTION). aircraft holds contact on	AS34 AS83 2I AS85 1S AS32 IN1	13-20 13-6 13-14 32-10 13-14 13-21 13-6 24-1
course and speed (SURFACE ACTION) data (SURFACE ACTION) decoys, contact is using (SURFACE ACTION). designations (SURFACE ACTION). disappearing radar contact detected bearing. enemy or unit, have contact with enemy or unit, last reported contact with harass subsurface contact held by unit on, contact is (SURFACE ACTION) identification of contact correct/incorrect (SURFACE ACTION) intercept contact, detach and take position to interest, contact is contact/critical contact of investigate contact, designate and dispatch search attack unit to investigate radar/sonar contact investigate sonar contact, leave present assignment to investigating unclassified contact keep between unit and contact keep clear of contact (ASW ACTION)	2E 2R 2C EMERG W TA23 TA24 HA6 2K 2M 2F AS21 IN1 2L AS14 AS19 TA62 AS15 EMERG Q TA100	32-10 32-9 32-12 32-9 3-4 33-3 33-3 23-2 32-11 32-10 13-4 24-1 32-11 13-3 13-3 33-6 13-3 3-4 33-10 13-21
	TA100 1O	33-10

C

	Signal	Page
lost contact, carry out search plan (ASW ACTION) lost contact, I have (ASW ACTION) lost contact, I have (SURFACE ACTION) maneuvering to maintain contact (ASW ACTION) mine contact mine contact is to be classified passive sonar contact (ASW ACTION) POSSUB/PROBSUB contact proceed to contact area radar, character of contact reported by radar contact radar contact bearing, holding (ASW ACTION) redesignate contact (SURFACE ACTION) reference point for contacts (SURFACE ACTION) responsibility for contact, assume tracking/boarding sonar contact (ASW ACTION) sonar contact (quality) (ASW ACTION) sonobuoy contact bearing, holding (ASW ACTION) sonobuoy is in/not in contact submarine, aircraft has indicated contact with take station from contact on circle (ASW ACTION)	1Y 2H 1G MW105 MW105 1J EMERG R TA88 TA116 RA4 1H 2D 2A IN8 1R 1U 1F AS39 AS31	13-19 13-22 32-10 13-19 26-18 26-18 13-20 3-4 33-9 33-12 29-1 13-20 32-9 32-9 24-2 13-21 13-22 13-19 13-8 13-6 13-22
CONTAINMENT, aim of action is	SU2	32-1
CONTAMINATED (See NUCLEAR)		
CONTINUE able to continue mission		30-2 13-14
CONTROL assume control (advisory/positive) of aircraft. assume tactical control (or I am assuming). position of control point. resume tactical control (or I am resuming) ship not under control. vessel is under my control withdraw control groups.	CO15 NA23 CO15 Flag 5 IN9	14-1 17-3 27-3 17-3 2-9 24-2 12-4
CONVERGENCE ZONE range		13-5 13-10
CONVOY center of front of convoy (standard position indicator)	Z CORPEN SCREEN H	35-1 7-10 9-4 9-3

MTP 1(D), Vol. II

		C
	Signal	Page
screen ahead of convoy	B SCREEN Z SPEED	9-4 9-7 8-6 6-7
COOPERATING/NOT COOPERATING with my boarding/boarding party, vessel is	IN5	24-1
COORDINATE (D) (ION) attack is to be coordinated at time	TA2 3W 4T AV16	32-1 33-1 32-17 32-21 14-3 10-2
CORDON carry out ASW search plan CORDON	AS105 1C	13-17 13-17 13-19 13-1
COUNTERMARK OPPONENT	HA1	23-1
COUNTERMEASURES effectiveness of enemy countermeasures	EW19 AS44 AS43	20-3 20-3 13-8 13-8 20-5
COURSE	P CORPÉN	1-47 7-9 30-9
alter course (See ALTER COURSE and WHEEL) alter the direction of the search to course		7-8 7-9
collision course, keep clear. contact course and speed (SURFACE ACTION). convoy course. course is	Z CORPEN K CORPEN EN6	3-2 32-10 7-10 7-9 19-1 27-3
Guide's course (See GUIDE) main body is to alter course for employment of chaff	TURN J CORPEN M	6-4 6-4 7-6 7-10

Index-21
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

C

	Signal	Page
my course	M CORPEN CORPEN U TURN S	7-9 7-8 6-5
resume previous course together. safety course. safety course, order submarine to steer safety course, steer. safety course, submarine. steady on course, stop the turn and	E CORPEN AS64 CORPEN E AS67	6-4 7-9 13-11 7-4 13-11 2-10 6-2 7-4
steady on course indicated, stop the turn and	CORPEN A AS73 1P AS94	7-4 7-4 13-12 13-21 13-15 7-10
track course	TURN	7-9 6-3 N 7-4
COVER WITHDRAWAL	AM19	12-4
CRASHED friendly aircraft crashed		3-4 14-2
CRITICAL CONTACT OF INTEREST	IN1	24-1
CRYPTO (See RADIO)		
CURRENT, direction and speed of	NA6	27-1
CUT sweep and mark position		26-15 26-1
CUTTERS, arming sweeps with	MW66	26-15
D		
DAMAGE (D) assist damaged ship		33-6 16-4

MTP 1(D), Vol. II

		D
	Signal	Page
enemy inflicted damage, purpose of movement is	RE15 T SPEED SPEED R TA92 RE16 RE11 TA111 AV30	33-8 30-3 8-6 8-4 33-9 30-3 30-3 33-11 14-5 32-12
DAMCAT	RE6	30-2
DANGER (OUS) attention is called to danger on bearing	AD2 MW8 MW106 FLAG E	3-2 11-1 26-1 26-19 2-2 3-4
DAN (S) mark mines cut with floating dan	MW61 MW58	26-18 26-14 26-14 33-16
DANBUOY cut sweep and mark position with danbuoy danbuoy is/has	MW50 MW51 MW61 MW52 MW56 MW57	26-15 26-13 26-13 26-14 26-13 26-14 26-14 26-13
DANLINE	MW55	26-13
DARKEN SHIP	TA36	33-4
DATA LINK REFERENCE POINT	NA18	27-3
DATES	(Art. 164)	1-43
DATUM approach to datum/contact information	AS82	13-14 13-14 13-14

Index-23
NATO-UNCLASSIFIED

D

	Signal	Page
drop a marker at datum	NA19	13-15 27-3 13-14
unit to	AS19 AS16 MW61	13-3 13-3 13-3 26-14 13-15
DAWN AND DUSK PATROLS	AV41	14-7
DECELERATION	(Art. 123)	1-15
DECEPTION communication deception, enemy is using	EW19 EW36	20-3 20-3 20-5 20-5
DECEPTIVE LIGHTING	TA39	33-56
DECIMAL	ANS (Art. 163)	2-10 1-43
DECONTAMINATION require decontamination party assistance	TA111	30-2 33-11 14-5
DECOY (S) contact is using decoys. enemy use of decoys detected. protection, use infrared decoys for release/fire decoys (AAW ACTION) release/fire decoys (SURFACE ACTION) simulation, use decoys for submarine has released decoy (ASW ACTION) torpedo decoys, operate torpedo decoys; stream, launch, or recover	EW19 EW38 7N 2U EW37 1W AS43	32-12 20-3 20-5 10-4 32-12 20-5 13-22 13-8 13-8
DE-ENERGIZE sweeps	MW84	26-16 26-17 13-10
DEFLECTION ANGLE (TORPEDO ACTION) individual settings for deflection angle (TORPEDO ACTION)		32-6 32-6

		D
	Signal	Page
DEGAUSSING		2-3 26-4
DELAY (ED) attack	AV16 ED48 RE48 AV28 AV26 TA110 AM7 AM16	32-1 14-3 18-5 30-6 14-5 14-4 33-11 12-2 12-4 7-8
DELAYING ACTION, fight a	SU19	32-3
DELEGATION of OTC's functions	CO5	17-2
DELIBERATE ATTACK	AS1 TA2	13-1 33-1
DENTAL GUARD DUTY	Flag M	2-5
DEPART OFFICIALLY, intention to	SPEED	2-13
DEPARTURE estimated time of departure	ED39 SCREEN D	27-4 18-5 9-2 9-7
DEPRESSOR calibrate depressor	MW71	26-15 26-16 2-12
DEPTH ASW weapon to depth, set	ED36 AS70 ME3 AS30 AS64 AS33 1P AS69	13-2 18-4 13-12 25-1 13-5 13-11 13-6 13-21 13-12 26-17

D

	Signal	Page
torpedoes to floor/ceiling/initial search depth, set	90 NA8	13-2 32-6 27-1 12-2
DESIGNATIONS for contacts (SURFACE ACTION)	2C	32-9
DESIRE if you desire (governing group)		15-1 15-1
DESTROY (ED) (ER) concentrate on unit, destroyer enemy is destroyed mine contact is to be destroyed rescue destroyer form astern of carrier by quickest means target destroyed unit	EN26 MW105 FORM L GM14	33-7 19-4 26-18 4-7 22-3 33-5
DETACH (ED) friendly force/unit is temporarily detached	AS21	33-3 13-4 33-9
DETAIL A SHIP to act as/carry out	TA57	33-6
DETECTED aircraft presumed hostile detected bearing. disappearing radar contact detected bearing. enemy missile detected bearing. enemy underwater demolition personnel detected. enemy use of countermeasures detected. fallout detected. friendly aircraft detected bearing. mine detected ahead. surface craft detected bearing. torpedo detected bearing. unidentified aircraft detected bearing. unit detected by enemy (SURFACE ACTION).	EMERG W EMERG G EMERG K EW19 EMERG N AA2 EMERG M EMERG J EMERG T EMERG B	3-2 3-4 3-3 3-3 20-3 3-3 10-1 3-3 3-3 3-4 3-2 32-12
DIAMETER	TA14 TURN	1-13 33-2 6-3 33-11
DIAMOND form diamond		4-5 1-36

MTP 1(D), Vol. II

		D
	Signal	Page
DIAPHRAGM	MW70	26-15
DIRECT (ED) act as/carry out the duty of/carry out following signals, direct ship to approach to datum, intend direct	AS82 TA139 CO16	33-6 13-14 33-15 17-3 24-1
DIRECTING SHIP assume duties of directing ship (ASW ACTION)	1B 1A	13-19 13-19
DIRECTION	(Art. 166)	1-46
alter course in direction (See ALTER COURSE and WHEEL) attack from direction is being carried out axis is bearing, direction of channel, direction of drift speed and direction line of direction between anchors. patrol leg, direction and length scouting line, change direction of line of bearing of search to course, alter the direction of the turn together in the direction	P FORM ED38 6B ED12 TA132 TA136 CORPEN S	32-1 4-10 18-5 30-7 18-3 33-14 33-14 7-8 6-2
DIRECTION FINDING bearing of racket by D/F	AS35 AS37	20-3 13-7 13-8 20-4
DISABLED enemy is disabled	RE1	19-4 30-1 33-5
DISAPPEARING radar contact detected	EMERG W	3-4
DISCRETION, AT YOUR anchor	AD26	18-1 11-3 18-2
DISENGAGE	TA97	33-10
DISPATCH (ED) authority to dispatch surface action group/search attack unit is delegated to screen coordinator		17-2 13-3

Index-27
NATO-UNCLASSIFIED

D

	Signal	Page
pre-H-hour transfers are dispatched		12-4 33-9
DISPOSAL friendly explosive ordnance disposal personnel down	AD26	2-1 11-3 26-16
DISPOSITION axis, direction of disposition axis to bearing, rotate disposition. center, position of disposition. course, disposition enemy force is in AAW/ASW disposition force is in disposition number. form CARTWHEEL disposition form disposition number Guide of disposition. outer limit of area in approach disposition group present disposition during the night, remain in speed, disposition station assignments in disposition area.	FORM P NA22 CORPEN Q EN20 A FORM K FORM M G FORM STATION Y FORM Z TA109 SPEED Q STATION S	4-10 4-8 27-3 7-8 19-3 4-9 4-7 4-7 4-9 5-6 4-8 33-11 8-4 5-5 5-6
DISREGARD my movements	Flag M	2-5
DISRUPTION electronic countermeasures	EW36	20-5
DISTANCE	TA12 (Art. 121) TA11 TA125 6K	1-46 33-2 1-13 33-2 33-13 30-8 33-2
DISTRACTION antiship missile defense course for distraction	2T	6-6 32-12 6-4
DISTRESS aircraft in distress	IN4	14-2 24-1 14-2
DISTRIBUTED; envelopes, orders, or hand messages are	AD33	11-4
DITCHED, aircraft in distress has	AV7	14-2

Index-28
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

		D
	Signal	Page
DIVERS DOWN	Flag A	2-1
DIVERT (ED) (SION) aim of action is diversion	IN9	32-1 24-2 24-1
DIVING incident	MW106 AD5 AS75 AS73 AS71	26-28 26-19 11-1 13-12 13-12 13-12 33-16
DIVISION, form (See FORM)		
DOMES, lower/raise	AS49	13-9
DOPPLER EFFECT (ASW ACTION)	1V	13-22
DOSE (RADIOACTIVE) cumulative dose received by personnel	NB5 NB6	28-1 28-1
DRAGGING, anchor is	ED1	18-1
DRESS SHIP	AD13	11-2
DRIFT SPEED AND DIRECTION	6B	30-7
DROP astern and escort/round up stragglers	AS24 AS89	33-6 13-4 13-15 33-15
DUMMY RUN	EX8	21-2
DUMP TRASH AND GARBAGE	AD26	11-3
DUTY (IES) assume duty of	TA60 MW58	33-6 33-6 26-14 33-6
guard duty (See GUARD) held	TA59 MW73	33-6 26-16

Index-29
NATO-UNCLASSIFIED

D

	Signal	Page
personnel remaining available for duty	TA88 AV42 Flag R AD41 Table D	30-1 33-9 14-7 2-6 11-5 34-5 2-8
ECONOMICAL SPEED		8-6 8-4
EFFECTIVE FALLOUT WIND	NB8	28-1
ELECTROMAGNETIC emission precautions	EMERG 3 CM18	20-5 3-5 16-4 19-5
ELECTRONIC countermeasures, use electronic	2R EMERG I	20-5 32-12 3-3 34-8
ELECTRONIC SUPPORT MEASURES aircraft holds contact on ESM	2K TA23 2H TA118 AS37	13-6 32-11 33-3 32-10 33-12 13-8 20-4
EMBARK CAUSEWAYS	AM4	12-2
EMERGENCY aircraft landing in emergency, I have	EMERG EMERG 6 (Art. 300) EMERG	3-2 3-5 3-1 2-11 3-1
helicopter landing in emergency, I have		3-2 14-2

		Ε
	Signal	Page
landing signals (aircraft use), emergency	TA104	14-1 33-11 13-21
EMISSION (S) cease all acoustic emissions		3-5 3-5
enemy emissions intercepted. maintain silence on acoustic/electronic emissions. operation of/silence all sonar emission equipment. precautions. radar emission instructions. set ESM watch for enemy emissions. silence lifted on emissions suspicious electronic emissions indicating an immediate threat unauthorized friendly emissions intercepted. use emission diagram.	EW7 AS55 EW45 EW9 EW31 EW2 EMERG 1 EW27	20-4 20-1 13-10 20-5 20-2 20-4 20-1 3-3 20-4 20-2
EMPLACE CAUSEWAYS	AM4	12-2
ENEMY		
aim of action against enemy forces. aircraft presumed hostile sighted bearing attacked by enemy, I am being. chase enemy communication deception concentrate on enemy contact reported by radar is believed to be enemy contact with enemy, I have countermeasures detected countermeasures, effectiveness of enemy course damaged by enemy action, ship is emissions intercepted emissions, set intercept or direction finding watch for enemy enemy is (governing group) feint attack on enemy, carry out	EMERG A TA3 SU1 EW18 SU6 TA69 TA116 TA23 EW19 EW20 EN6 RE11 EW28 EW28	32-1 3-2 33-1 32-1 20-3 32-2 33-7 33-12 33-3 20-3 20-3 19-1 30-3 20-4 20-4 15-1 32-1
fire on enemy (See FIRE) forces are operating in vicinity formation formation, number of ships in enemy hold down enemy submarine following force identity of unit is enemy. last reported contact with enemy make enemy (amplifying) report marking unit, enemy is	EN18 EN20 EN21 AS3 TA117 TA24 EN23	19-3 19-3 19-3 13-2 33-12 33-3 19-3 19-4

Ε

	Signal	Page
mean line of advance	MW9 EN8 EMERG G EN22 EN10	19-1 26-2 19-2 3-2 19-3 19-2
to attack enemy reconnaissance by enemy has reported this force reconnaissance of enemy, provide scouting aircraft for report, position for enemy (standard position indicator) report, position XX for enemy report, use position for enemy shadowing unit, enemy is smoke previously reported is from enemy speed status (destroyed/disabled/still engaged) submarines believed in this vicinity sunk, enemy ships have been surface craft sighted bearing underwater demolition personnel detected unit bears from unit unit detected by enemy (SURFACE ACTION)	EN25 AV42 XX NA29 EN24 EN29 TA149 E SPEED EN26 AS77 EN27 EMERG E EMERG K TA32	33-8 19-4 14-7 35-1 27-4 19-3 19-4 33-16 8-5 19-4 13-13 19-4 3-2 3-3 33-4 32-12
ENERGIZE sweeps		26-16 13-10
ENGAGE (D) (ING) (MENT) aircraft/missile/track (AAW ACTION)	EN26 AA1	10-3 19-4 10-1 32-2
(SURFACE ACTION)	CO17 2N	32-13 17-3 32-11 32-19
target, I am engaging (SURFACE ACTION)	3F	32-19 32-19 32-14 32-21
ENGINE (S) aircraft in distress has engine failure	EX11 6J	14-2 21-2 30-7 8-5

MTP 1(D), Vol. II

		Ε
	Signal	Page
stop engines	AS65 SPEED 0 SPEED A	8-4 13-11 8-1 8-1 30-7
ENGINEERING assume degree of readiness for engineering	W SPEED SPEED M	30-4 8-6 8-4 5-7
ENTER HARBOR	ED53	18-6
ENTRANCE, patrol harbor	TA130	33-14
ENTRY intervals, units pass point X at entry	SCREEN E	18-5 9-2 9-7
ENVELOPES are being distributed		11-4 11-4
ENVIRONMENTAL DATA	ME11	25-2
EQUIPMENT acoustic gear operation	MW68 MW3 CM21	26-15 26-15 26-4 16-4 30-5
may cause	CM17 RE37	16-4 16-4 30-5 26-16
operate equipment	CM20 RE30 RE33 RE34	30-5 16-4 30-4 30-5 30-5 13-9
sonar equipment (See SONAR) sonobuoy is operating/not operating efficiently		13-8 34-15

Index-33
NATO-UNCLASSIFIED

Ε

_		
	Signal	Page
trials or tests of equipment, carry out	AS43	21-2 13-8 30-5
ESCORT stragglers		33-6 24-1
EVACUATION, conduct	AM17	12-4
NOT RELEASABLE		
EVOLUTION COMPLETED	Flag X	2-8
EXCHANGE STATIONS, ships	STATION J	5-4
EXECUTE (D) maneuver ordered is to be executed without further signaling	CO12	7-10 17-2 2-11 3-1
EXEMPTED ADDRESSEE	NEGAT	2-12
EXERCISE assume command as officer conducting exercise/serial come to exercise depth command as officer conducting exercise/serial is held in unit diving for serial, report when ready to start exercise exercise at fire for exercise (TORPEDO ACTION) flag flag signals for submarine/antisubmarine exercises independently initial position for scheduled exercise. submarines are exercising in area, proceed with caution submerge to exercise depth table take charge and conduct the exercise	CO2 AS70 CO3 AS75 EX2 9A Flag X (Art. 1306b) EX4 NA21 CODE NEp2 AS69 Table X	21-2 27-3
EXPLOSIVE (S) ordnance disposal personnel down, friendly explosive ordnance disposal team assistance, require explosive signal charges, fire explosive sweep salvos, fire explosive transferring/transporting explosives	RE7 AS63 EX5 MW75	2-1 30-2 13-11 21-2 26-16 2-2

NOT RELEASABLE

MTP 1(D), Vol. II

		Ε
	Signal	Page
EXTEND (ED) aircraft/helicopter operations, I have extended	TA14 (Art. 131)	14-4 33-2 1-19 33-2
NOT RELEASABLE swept, extend area to be		26-4
FACSIMILE establish communications by facsimile		16-2 16-2
FALL OF SHOT (SURFACE ACTION) verify fall of shot using standard procedure (SURFACE ACTION)		32-21 32-21
FALLOUT (See NUCLEAR)		
FAST PATROL BOAT laying up/waiting position, proceed to FPB	(Art. 3209) 4K	33-9 32-23 32-20 10-2
FATHOMETER operation is authorized	AS55	13-10
FEINT ATTACK, carry out	SU3	32-1
FINEX TIME	AS76	13-12
FIRE (flames)	AV7 RE7 EMERG P RE12	30-3 14-2 30-2 3-3 30-3
ship is damaged by fire	RE11	30-3
FIRE (D) (ING) (weapons) ceased firing, I have (SURFACE ACTION). cease fire (AAW ACTION) cease fire (emergency). cease fire (SURFACE ACTION) chaff	7C EMERG 4 4C EW41 7L 2S	32-19 10-3 3-5 32-19 20-5 10-4 32-12 32-12 32-3
concentrate fire on target (SURFACE ACTION) coordinate fire of long-range antisurface ship missiles (SURFACE ACTION)	20	32-11 32-17
coordinate fire of short-range surface-to-surfce missiles (SURFACE ACTION)		32-21

Index-35
NATO-UNCLASSIFIED

F

	Signal	Page
cover withdrawal by fire. decoys (AAW ACTION). decoys (SURFACE ACTION). deflection angle for firing (TORPEDO ACTION) disguise moment of firing, close after attack to (TORPEDO ACTION). distribution of fire (SURFACE ACTION) do not commence surface fire until identity is established enemy, fire on (SURFACE ACTION). explosive signal charges	. 7N . 2U . 9R . 9I . 4J . SU1 . 4M	12-4 10-4 32-12 32-6 32-5 32-20 32-1 32-20 13-11 21-2
explosive sweep salvoes . grid area, fire into . hangfire/misfire/loaded gun, I have a . hold fire (AAW ACTION) . independently (SURFACE ACTION) . limit bearings, firing . line of fire, clear . line of fire for long-range antisurface ship missiles (SURFACE	. GM20 . GM11 . 7H . 4K . GM9	26-16 22-3 22-2 10-3 32-20 22-2 22-2
ACTION)	. 3J	32-14
line of fire for long-range antisurface ship missiles, request (SURFACE ACTION) minefield is about to be fired opened fire, target has (SURFACE ACTION) open fire (AAW ACTION). opening fire, follow movements of unit in (SURFACE ACTION) point of aim for firing (TORPEDO ACTION) position, firing unit (SURFACE ACTION). preaction calibration (SURFACE ACTION). protection, fire rocket chaff for protection, fire shell chaff for rake code retire on course after firing (TORPEDO ACTION) shift fire (SURFACE ACTION) sighted antiaircraft fire/gun flashes surface-to-surface missile fire (order) (SURFACE ACTION) stard by for weapon firing (ASW ACTION). starshell search spread (SURFACE ACTION) support area, operate in fire target speed across for firing (TORPEDO ACTION) time of firing (TORPEDO ACTION).	. 3K . MW14 . 2Q . 7O . 4I . 9J . 3G . 4O . EW41 . EW42 . GM13 . 9Y . 4L . TA30 . 3D . 3E . 1D . 4H . AM11 . 9Q . 9D	32-14 26-2 32-12 10-4 32-20 32-5 32-14 32-21 20-5 20-5 22-2 32-6 32-20 33-4 32-14 13-19 32-20 12-3 32-6 32-5 32-7
torpedo firing signals, special night. torpedo, suspect submarine has fired torpedoes (TORPEDO ACTION). torpedoes have just been fired by ships of my unit. turn as required and fire (TORPEDO ACTION) turn in succession and fire (TORPEDO ACTION)	. (Art. 3206) . AS44 . 9A . SU29 . 9V	32-7 13-8 32-5 32-4 32-6 32-6

		F
	Signal	Page
turn together and fire (TORPEDO ACTION)	SU8	32-6 32-2 12-4
FLAGHOIST establish communications by flaghoist expedite flaghoist signals flag for flaghoist drill tactical maneuvers by flaghoist transmissions other than by flaghoist use flaghoist method use flaghoist only	CM11 Flag S EX9 (Art. 119) CM6	16-2 16-3 2-7 21-2 1-11 16-2 16-6
FLARE (S) illuminate target/sector with flares (SURFACE ACTION) illuminating with flares, I am (SURFACE ACTION)	4G TA62	32-20 32-20 33-6 33-4
FLASHING LIGHT establish communications by flashing light	IN3	16-2 24-1 16-2
FLEET FREIGHT, transfer	RS8	31-3
FLIGHT OPERATIONS carry out flight operations	F CORPEN D CORPEN Flag F AV24	14-3 7-9 7-9 2-3 14-4 14-4
resume base course, signaled speed, and zigzag together after flight operations	TURN V RE47 F SPEED AV28 CO16 AV29 TURN F TURN A AV30	6-5 30-6 8-5 14-5 17-3 14-5 6-4 6-4 14-5 33-16
FLOAT (ING) drop smoke floats		33-15 33-6

F

•	G: 1	
	Signal	Page
light, float is to carry	TA148	26-16 33-15 33-4
FLOODING	RE18	30-3
FLYING CONTROL FAILURE, aircraft in distress has	AV7	14-2
FOG anchor on account of fog	ME3 ME3 TA148	18-1 25-1 25-1 33-15 27-1
FORCE (S) center of the force, screen center bears from center of the force (standard position indicator) enemy forces are operating in the vicinity enemy surface forces, aim of action against disposition number, force is in formation number, force is in friendly force is landing force (See LANDING)	ZZ EN18 SU2 A FORM B FORM	9-7 35-1 19-3 32-1 4-9 4-9 33-3
maneuvers, take charge of the force for	SU23 Table F	17-3 32-3 34-10 6-7
FORCED DOWN, aircraft in distress	AV7	14-2
FORECAST, make weather	ME9	25-1
FORM (ED) (ING) amphibious formation	FORM K	4-3 4-7 4-2
column in order of sequence numbers/in quickest sequence, get underway and form	FORM A FORM 2 FORM E FORM 20-29 FORM D FORM M FORM 6 FORM 5 FORM 10	18-6 4-5 4-2 4-6 4-3 4-5 4-7 4-2 4-2 4-2

MTP 1(D), Vol. II

		F
	Signal	Page
FORM, instructions for		4-1
form pre-ordered formation		4-8 9-6
helicopter action group and clear the force to investigate		32-2
large combatant ship formation		4-3
line abreast in quickest sequence on the Guide, form single		4-5
line abreast to port in order of sequence numbers		4-2
line abreast to starboard in order of sequence numbers		4-2
line formations, forming	(Art. 401)	4-2
line guides are to form on true/relative bearing from the Guide		4-6
line guides forming on a bearing		4-6
line of bearing, forming on a		4-4
loose line abreast in quickest sequence on the Guide		4-8
loose line of bearing in quickest sequence on the Guide		4-7 4-5
main body is formed (See MAIN BODY)	FURIVI C	4-5
maneuvering purposes, form part of unit for	TA99 :	33-10
mine countermeasures formation, form preliminary		4-7
miscellaneous formation		4-3
operational dispositions and formations, forming		4-3
quickest sequence, forming in the		4-5
quickest sequence, forming lines in		1-30
replenishment formation		4-3
rescue destroyer form astern of carrier by quickest means		4-7
reverse the order of ships in column		4-6
scouting line on an arc	TA135	33-14
screen (See SCREEN) search attack unit and investigate	A C 1 O	13-3
sequence numbers, forming lines in order of		1-29
ships form on true/relative bearing on course		4-4
spare		4-3
subdivisions in column to port, subdivision guides bearing abeam		4-2
subdivisions in column to starboard, subdivision guides bearing abeam		4-2
subdivisions in line abreast to port, subdivision guides bearing astern	FORM 12	4-2
subdivisions in line abreast to starboard, subdivision guides bearing		
astern		4-2
surface action formation		4-3
surface action group and clear the force to investigate		32-2
transport/logistic formation		4-3 4-7
unit		17-2
unit	000	17 2
FORMATION		
axis is bearing, direction of formation	P FORM	4-10
axis the same number of degrees and direction; alter course, rotate		
formation		7-5
axis to bearing, rotate formation		4-8
axis to the same true direction; alter course, rotate formation		7-5
anchor in formation		18-1
assuming formation	(AIL. 131)	1-28

Index-39
NATO-UNCLASSIFIED

F

	Signal	Page
attack by formation method (TORPEDO ACTION)	K FORM NA22 TA85 TA95 EN20 EN21	32-5 4-9 27-3 33-8 33-10 19-3 19-3
guide of formation	(Art. 132) TA85 TA87 (Art. 136) (Art. 148) (Art. 140)	4-9 1-20 33-8 33-9 1-22 1-36 1-31 1-33
number, force is in formation	TA103 TA88 FORM Z TA109 FORM W (Art. 139) TA77 TA71 (Art. 138)	4-9 33-10 33-9 4-8 33-11 4-8 1-30 33-8 33-7 1-29 5-5
FORWARD OBSERVER (SURFACE ACTION)	3Y	32-17
FOUL (ED) anchor is foul	AV30 ED8 ED9	18-1 14-5 18-2 18-2 22-2
FOUND, mines have been	MW12	26-2
FRACTIONS	ANS (Art. 163)	2-10 1-43
FREE AAW weapons free (AAW ACTION)		10-3 13-2

		F
	Signal	Page
FREQUENCY bands	EW1 GM23 EW19 CM12 CM21 CM19 EW31 CM8 CM10 AS50	34-8 20-1 22-3 20-3 16-3 16-4 16-4 20-4 16-2 16-3 13-9 20-1
FREQUENT TARGET REPORTING cease reporting (SURFACE ACTION)		32-15 32-15
FRIENDLY aircraft crashed	AA2 IN1 TA116 TA26 TA117 EW26 AA4 TA149 EMERG Z AS78 TA32	3-4 10-1 24-1 33-12 33-3 33-12 20-3 10-1 33-16 3-4 13-13 33-4 30-3
FUEL (ING) astern fueling (See ASTERN FUELING) capacity/percent, fuel to close for transfer of fuel. intend to conduct helicopter in-flight refueling operations percentage of fuel on board at noon present speed, fuel will last at received/supplied receiving and delivering ships receiving ship disengaging replenish fuel required. shaft power available for maximum fuel economy	RS2 RS1 AV17 RE40 J SPEED RS5 Flag B PREP RS8 RS4	31-1 31-1 14-3 30-5 8-5 31-2 2-12 31-3 31-2 30-6

F

•		
	Signal	Page
transporting fuel		2-2 33-16
FULL RUDDER, use	TA104	33-11
FURL AWNINGS	AD22	11-3
FUZE (S) enemy proximity fuze emissions intercepted		20-4 32-21
G		
GENERAL degree of readiness	2nd	30-4 2-14 2-14
GEOGRAPHIC POSITION control point	NA20 L SCREEN NA28	27-3 27-3 9-7 27-4 27-4
GEOGRAPHIC SECTOR, use ASW attack method	AS2	13-1
GET UNDERWAY	ED49	18-6
GOALKEEPING STATION, ship take	STATION H	5-3
GOBLIN form SAU and investigate GOBLIN	TA62	13-3 33-6 13-3
GOVERNING groups (See Art. 112)		15-1 1-7
pennants (See Art. 111)	(Art. 112) PREP INT NEGAT (Art. 111)	2-12 2-11 2-12 1-6
GRID control point, grid position of	SCREEN D	27-3 9-2 9-2

Index-42
NATO-UNCLASSIFIED

	G
Signal	Page
fire into grid area	22-3 22-3 27-3 27-3 EEN 9-7 27-4
GROUND (ING) mine will be countermined	1 26-18 30-3 28-2
GROUPS end of groups governed by governing group (governing group) BX governing groups	2) 1-7
signals following, groups from publication used for	16-3
GUARD assume bathythermograph guard duty assume radar guard duty communication guard guard mail duty boat maintain radio guard watch medical/dental guard duty military guard duty send guard boat AD5	13-4 29-1 2-8 2-9 16-2 2-5 2-9 11-1
GUIDE (S)	EN K 7-5 33) 1-20 31) 1-19 RPEN 7-9 M 4-9 33-2 M 4-9 32) 1-20 G 4-6 V 4-8 2-3 U 4-8 D 8-1 ED 8-5 D G 8-2 EN P 7-8

G

	Signal	Page
take station and become Guide	STATION A STATION B	5-3 5-3 5-3 1-20
GUN (S) close range, keeping all guns bearing/to maximum gun range engaging with guns, I am	AA1	32-1 10-1 22-2
beyond enemy's gun range	EX11	32-2 21-2 32-2
GUNFIRE attacked with naval gunfire, I am being. call spotter on frequency allocated	GM23 GM22 GM20 GM21 TA30 GM24	33-1 22-3 22-3 22-3 22-3 33-4 22-3 33-16
GUNLINE/BOLO (towing)	6N	30-8
GUNNERY RADAR JAMMED (SURFACE ACTION)	4Q	32-21
н		
HAMPER opponent's operations or movements	HA7	23-3
HANDS FALL	ED51	18-5
HANGFIRE (gun/missile)	GM11	22-2
HARASS (ING) aircraft, harass opponent by use of	SU19 HA3 HA6	23-2 32-3 23-1 23-2 23-2
HARBOR ENTRANCE, patrol	TA130	33-14
HAWSER (towing)	6Q	30-8
HEIGHT above waterline	NA16	27-2

Index-44
NATO-UNCLASSIFIED

-	1

		• • •
	Signal	Page
HELICOPTER act independently to conduct helicopter operations assume command as helicopter action group commander. attack with weapon-carrying helicopter. command as helicopter action group commander is held in unit condition of helicopter sonar form helicopter action group and clear the force to investigate. form helicopter windline screen. intend to conduct helicopter operations landing in emergency, I have helicopter my method of boarding is helicopter number of helicopters assigned to screen operation of helicopters. preferred method of boarding is helicopter progress of helicopter operations. random dip in sector/area scramble weapon-carrying helicopter screen formed is helicopter windline screen screening helicopters proceed to/remain in station send helicopter to ship status of helicopter transfer signals	TA92 CO2 TA2 CO3 AS48 SU13 SCREEN H AV17 EMERG H IN12 M SCREEN Flag H IN13 AV26 AS87 AV11 H SCREEN SCREEN S AD5 AV27 (Art. 3102)	33-9 17-1 33-1 17-1 13-9 32-2 9-4 14-3 3-2 24-2 9-8 2-4 24-2 14-4 13-15 14-2 9-7 9-6 11-1 14-5 31-6
weather is suitable for helicopter operations	TA154	33-16
HERO WARNING	Flag L CM21	2-4 16-4
HOIST all boats	AM6 RE2 NA17 ED23	11-2 12-2 30-1 27-2 18-3 5-5 1-17
HOLD (ING) active sonar, holding contact by (ASW ACTION). enemy submarine, hold down fire (AAW ACTION). fire, hold surface-to-surface missile (SURFACE ACTION). held surface-to-surface missile fire, I have (SURFACE ACTION) radar, holding contact by (ASW ACTION) sonobuoy, holding contact by (ASW ACTION). unknown vessels, in my area I hold.	AS3 7H 3D 3E 1H 1F	13-20 13-2 10-3 32-14 32-14 13-20 13-20 24-2
HOUR	AM7	12-2

Н

	Signal	Page
HUNTED area to be hunted	MW32 MW34	26-4 26-4 26-4 26-19
HYDROGRAPHY operations	TA160	33-16
HYDROPHONE submarine indications by hydrophone		13-7 13-22
1		
I am (governing group)	CO14 CO15 BM BI 6G BB	15-1 17-3 17-3 15-1 15-1 30-7 15-1 15-1
IDENTIFICATION FRIEND OR FOE aircraft in distress showing IFF distress	EW27 RA6	14-2 20-4 29-1 33-12
IDENTIFICATION SAFETY RANGE	AA3	10-1
IDENTIFY (IED) contact is correctly/incorrectly identified (SURFACE ACTION)	MW105 GM14	32-11 26-18 22-3 33-12
IDENTITY contact identity (SURFACE ACTION)	SU1	32-10 32-1 33-12
IF YOU DESIRE (governing group)	BJ	15-1
ILLUMINATE (ING) as indicated	4H 4G	33-12 32-20 32-20 32-2

Index-46
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

	Signal	Page
ship ceremonially	AD10 4F	11-2 32-20
INDEPENDENT (LY) act independently	9H TA2 EX4 4K AV16 TA93 TA88	33-9 32-5 33-1 21-2 32-20 14-3 33-9 33-9 6-4
INFLAMMABLE MATERIAL, transferring/transporting	Flag B	2-2
INFORMATION general information	3rd Flag W J TURN	2-14 2-14 2-8 6-6 15-1
INFRARED aircraft holds contact on infrared system	2R EW28 7N 2U	13-6 32-12 20-4 10-4 32-12 20-5
INOPERATIVE EQUIPMENT	RE31	30-5
INTEGRATED SCREEN form integrated screen		9-4 9-7
INTEND altering course		7-9 13-14
INTENTION (S) my present intention is to (governing group)	TA109	15-1 33-11 13-15
INTERCEPT (ED) (ING) approach to datum, intend intercept		13-14 13-16

Index-47
NATO-UNCLASSIFIED

	Signal	Page
classified friendly	AS21 EW28 EW27 AS23 EMERG I	20-3 13-4 20-4 20-4 13-4 3-3 20-4
INTERFERENCE acoustic interference, I am experiencing (ASW ACTION) electromagnetic pulse may cause interference transmissions are causing interference with communications or equipment	CM18	13-20 16-4 16-4
INTERNATIONAL Code of Signals	CODE (Art. 117)	2-10 1-10
INTERROGATIVE (governing pennant)	INT (Art. 111)	2-11 1-6
INTERVAL (S) departure intervals, units pass point A at	ED40 ED49 TA14	18-5 18-5 18-6 33-2 33-2
INVESTIGATE (D) (ING) contact, designate and dispatch search attack unit to investigate	EMERG Q 2L SU13 AS19 SU11 TA62 AS15 AS16 MW105 TA149	13-3 3-4 32-11 32-2 13-3 32-2 33-6 13-3 13-3 26-18 33-16 32-2
J		
JAMMED (ERS) (ING) enemy jamming emissions intercepted enemy use of communications/radar jamming detected		20-4 20-3

Index-48
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

		J
	Signal	Page
engaging with jammers, I am	EW27	10-1 20-4 32-21
JOINING	TA86 TA26	1-19 33-8 33-3 6-6
		K
KEDGE	ED9	18-2
KEEP a ready deck	TA100	14-5 33-10 33-10
clear (See CLEAR) on to sea		33-7 33-8
KITE calibrate kite	MW71	26-15 26-16 26-16
		L
LAND contact reported by radar is land	TA62 RA4	33-12 33-6 29-1 33-4
LANDING (aircraft emergency) aircraft landing in emergency, I have	(Art. 1400) EMERG H	3-2 14-1 3-2 14-2
LANDING (amphibious) beach	AM17 AM12 AM6 AM9	12-1 12-4 12-3 12-2 12-3 12-3

Index-49
NATO-UNCLASSIFIED

L

	Signal	Page
schedule is advanced/retarded	AM10	12-3 12-3 12-4
LATITUDE AND LONGITUDE	NA18 NA19	1-45 27-3 27-3 27-4
LASER HAZARD exists	CM24	16-4 16-4 16-4
LAUNCH (ING) aircraft	AV16 AV28 AV26 AS42 F SPEED	14-5 14-3 14-5 14-4 13-8 8-5 33-9
LAY danbuoys		26-14 26-3
LAYER DEPTH	AS30	13-5
LEAD DOWN CHANNEL	ED35	18-4
LEADTHROUGH SIGNALS	(Art. 2604)	26-5
LEAKAGE, ship is damaged by	RE11	30-3
LEAVE formation	ED54 AS15	33-9 18-6 13-3 13-3
LEAVE AND LIBERTY may be granted	AD23	11-3
LEAVING	(Art. 129)	1-19
LEFT I have left channel		26-12 26-3

		L
	Signal	Page
LIFEGUARD STATION, take	STATION L	5-4
LIGHT (ING) deceptive lighting, rig . float/diverter is to carry light . investigate lights/lightship . measures (flight operations), lighting . show no light/only lights indicated . sighted lights/lighthouse/lightship . turn on lights . turn on navigation lights . use ASE lights . use directional lights only . you have a light showing .	MW78 TA62 AV24 TA36 TA30 TA38 NA14 AS52 CM39 TA37	33-5 26-16 33-6 14-4 33-4 33-5 27-2 13-9 16-6 33-5 27-2
LIGHT MATERIAL for transfer	RS3	31-1
LIGHT SUPERHEATERS	RE46	30-6
LIMITS, change sector screen	SCREEN Q	9-5
LINE ABREAST form line abreast (See FORM) wheeling in single line abreast	(Art. 146)	1-35
LINE OF BEARING anchor on line of bearing	FORM O (Art. 403) TA136 TA127 TA134	18-2 4-7 4-4 33-14 33-13 33-14 33-15
LINE OF COLUMN form loose line of column to port/starboard		4-5 1-34
LINE OF DANS, ship lay	MW61	26-14
LINE OF FIRE (See FIRE (weapons))		
LINE OF MINES	MW102	26-18
LINK data link reference point	NA18 CM4	27-3 16-2

MTP 1(D), Vol. II

L

	Signal	Page
provide scouting aircraft for communication/special link simulate SSN-link procedure	EW46	14-7 20-5 16-2
LISTENING WATCH maintain radio listening watch		16-2 13-10
LOCATE (D) (ION) contact location (SURFACE ACTION)	4H	32-10 32-20 26-18
LOGSPEED	L SPEED	8-5
LOST anchor is lost	TA116 1Y 2H 1C	18-1 33-12 13-22 32-10 13-19 33-5
LOUDHAILER establish communications by loudhailer		16-2 16-2
LOW AIRCRAFT PATROLS	AV41	14-7
LOWER domes/variable depth sonar transducers	AS49	13-9
M		
MAGNETIC actuation width for magnetic sweep	AS34 MW79	26-17 13-6 26-16 13-8
MAIL close for transfer of mail guard mail duty boat intend to conduct helicopter operations for mail transfer send boat for mail. transfer mail transfer, mail for	Flag 0 AV17 AD5 RS8	31-1 2-9 14-3 11-1 31-3 31-1

MTP 1(D), Vol. II

M

	Signal	Page
MAIN BODY alter course for employment of chaff, main body is to center of front of main body (standard position indicator) formed, main body is is to alter to the promulgated ASMD course screen ahead of main body screened in sector, main body is sector method, main body is formed by stationed by sector method, main body is to be	QQ Y FORM TURN J SCREEN N B SCREEN Z FORM V STATION	1 6-4 35-1 4-10 6-4 9-4 9-7 4-10 5-8 5-4
MAINTAIN aircraft patrols, establish and maintain	AS65 CORPEN U TA12 MW83	14-7 13-11 7-8 33-2 26-17 20-1
station, ships maintain		5-5
MAINTENANCE equipment inoperative for corrective maintenance	AV27	30-5 14-5 14-5
MALFUNCTION (gun/missile)	GM11	22-2
MAN OVERBOARD	TA46 TA47	2-5 33-5 33-5 33-9
MAN SHIP CEREMONIALLY	AD10	11-2
MANEUVER (ING) alter course together to carry out maneuver previously ordered avoid attack, maneuver independently to. blow tubes, maneuver as necessary to. contact, maneuvering to maintain (ASW ACTION). distances, intervals, and speeds; maneuvering expedite maneuver. fast patrol boat maneuvering signals. form part of unit for maneuvering purposes harass opponent by maneuvering interval, maneuvering interval/extended maneuver note circumstances of maneuver to discuss in harbor orders and instructions, maneuvering	TA93 TA43 1G (Art. 121) TA44 (Art. 3209) TA99 HA3 TA14 TA100 TA102	6-4 33-9 33-5 13-19 1-13 33-5 32-23 33-10 23-1 33-2 33-10 1-22

Index-53
NATO-UNCLASSIFIED

M

	Signal	Page
principal rules for maneuvering	W CORPEN (Art. 124) EX9 CO16 TA15 SU9 TA154	1-13 7-10 1-16 21-2 17-3 33-2 32-2 33-16 33-10
MARK (ED) (ER) (ING) drop marker at datum/in position	EN30 MW105 MW103 HA1	13-15 19-4 26-18 26-18 23-1 13-16
MARRIAGE (CAUSEWAYS)	AM4	12-2
MASKING operate masking devices		13-9 8-4
MAXIMUM RANGE close range to maximum range	SU7	32-1 32-2 32-11
MAXIMUM RUDDER, use	TA104	33-11
MAXIMUM SPEED all ships scatter, move out at maximum speed	EMERG 0	3-5
engineering configuration	C SPEED	8-4 8-5 8-6
maintained with present engineering configuration, maximum speed which can be	U SPEED RE47	8-6 8-6 30-6 8-6
MEAL BREAK	AD24	11-3
MEAN LINE OF ADVANCE enemy's mean line of advance		19-1 9-7
MECHANICAL SWEEP ORDER	MW80	26-17

Index-54
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

		M
	Signal	Page
MEDICAL duty ship	RE7	2-5 30-2 11-3
MERSHIP guidance signals	(Art. 2604b)	26-7
MESSAGE (S) attention is called to message	CO4 AD33 AD34	11-4 17-1 11-4 11-4 2-4
MESSENGER (towing), heavy/light	6P/6O	30-8
METEOROLOGY (See WEATHER)		
MILITARY guard duty	Flag 0 IN1	2-9 24-1
MINE (S) (ED) adrift, I have cut a mine. area is dangerous on account of mines buoy position of mine. channel/area is clear of mines channel is clear of mines/mined contact is to be (action). countermeasures (See MINE COUNTERMEASURES) detected/sighted ahead. detection/explosion report divers, mines in area are dangerous to. drifting/just awash/neutralized/sinking dropped by aircraft in position ground mine will be countermined laying mines (See MINELAYING) line of mines bears mark mines cut with floating dan position, mines have been found/reported in reference number (MRN). set mine watch ship is damaged by mine sighted or swept/hunted table weather is suitable for mine recovery.	MW8 MW32 MW34 MW111 MW105 EMERG M MW128 MW106 MW11 MW6 MW101 MW102 MW103 MW102 MW103 MW12 MW115 MW5 RE11 MW116 Table M	26-1 26-4 26-4 26-4 26-19 26-18 3-3 26-25 26-19 26-2 26-1 26-18 26-2 26-19 26-1 30-3 26-19 34-13 33-16
MINE COUNTERMEASURES after the turn, take up MCM formation		4-9 4-9

Index-55
NATO-UNCLASSIFIED

M

	Signal	Page
equipment table. form preliminary MCM formation haul out of MCM formation and clear sweep OPDEF (MCMR 13A, 13B, 42), open from Guide and take station, MCM ships are to operations operations operations directions recover MCM equipment remaining, MCM equipment safe MCM speed over the ground situation report sonar search procedure swept channel, MCM vessels approaching of swept path of MCM formation weather is suitable for pressure MCM	FORM H MW82 MW129 STATION N Flag R MW124 MW120 RE35 Q SPEED MW130 MW121 MW37 MW92	34-20 4-7 26-17 26-25 5-5 2-6 26-20 30-5 8-6 26-26 26-20 26-4 26-18 33-16
MINEFIELD (S) controlled minefield is about to be fired	MW15 MW9	26-2 26-2 26-2 26-2
MINEHUNTER PROTECTION	MW107	26-19
MINEHUNTING (See also HUNTED) bottom conditions for minehunting	MW110 MW111 MW114 MW109	26-19 26-19 26-19 26-19 26-19 33-16
MINELAYING enemy is laying mines	MW24 MW23 MW22 MW25	19-2 26-3 26-3 26-3 26-3 33-16
MINESWEEPING duty assignment	STATION O	26-16 5-5 33-16
MISFIRE (gun/missile)		22-2 13-2

MTP 1(D), Vol. II

M

	Signal	Page
MISSILE attack by missile (See MISSILE ATTACK, OVER-THE-HORIZON		- "8"
ATTACK) close range to effective/maximum missile range	EMERG G EW28 EN22 AA1 SU9 SU7 RE11 7S AA5	32-1 3-2 20-4 19-3 10-1 32-2 32-2 30-3 10-4 10-2 21-2
MISSILE ATTACK (See also OVER-THE-HORIZON ATTACK) attack by missiles may be expected now		33-3 33-1
ACTION)	TA93 RE25 SCREEN I 3D 3E AS37 TA64	32-21 33-9 30-4 9-4 32-14 32-14 13-8 33-7 9-7
MOOR (ED) (ING) anchors, moor with	Flag U ED7	18-2 2-7 18-2 18-3
MOVEMENT conform to general movements of unit disregard my movements. extend duration of course and speed now steaming (PIM). follow movements in conforming to channel follow movements of column leader/OTC/unit follow movements of unit in opening fire (SURFACE ACTION) hamper opponent's movements join as leading/rear ship and conform to movements. optional to follow senior officer's movements. position and intended movement purpose or reason for present movement submarine's movement. your movements are not understood.	Flag M NA25 ED44 TA98 4I HA7 TA86 Flag 6 NA24 TA76 AS36	33-7 2-5 27-3 18-5 33-10 32-20 23-3 33-8 2-9 27-3 33-8 13-7 2-5

Index-57
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

M

	Signal	Page
MOVIES close for transfer of movies	AD5	31-1 11-1 31-3
N		
NAME	AD25	11-3
NANCY act as Nancy relay ship	CM4 CM6 TA118 CM14	16-5 16-2 16-2 33-12 16-3 16-6
NATIONAL senior officer present afloat	STBD	2-13
NAVIGATION enemy navigation aid emissions intercepted	AS56 AS55	20-4 13-10 13-10 27-2
NAVTRACK follow		27-4 27-4
NBC DEFENSE, readiness for	RE20	30-4
NEGATIVE (governing pennant) (See Art. 111)	NEGAT (Art. 111)	2-12 1-6
negative (towing)		30-9
NEUTRAL bearing of neutral unit		33-4 33-12
NEUTRALIZED, mine contact is to be	MW105	26-18
NIGHT aircraft night patrols	U SPEED TA109	14-7 8-6 33-11 31-7
NO	NEGAT	2-12

Index-58
NATO-UNCLASSIFIED

		N
	Signal	Page
NOISE (MAKERS) ambient noise	AS45 AS55 AS23 AS42	13-9 13-9 13-10 13-4 13-8 13-22
NORMAL FIRE DISTRIBUTION (SURFACE ACTION)	4J	32-20
NORMAL SPEED		8-6 8-4
NOTICE FOR getting underway		30-6 30-6
NUCLEAR activate prewetting washdown system area/sector has undergone nuclear attack/contaminated, radioactivity probably exists attack is possible attacked with nuclear weapons, I am being beaching hazardous due to radioactivity fallout detected bearing. fallout is from direction formation rendezvous from ZZ (point ROMEO) ground zero. probable yield. re-embarking troops are contaminated ship/unit contaminated by radioactivity ship/unit is being contaminated by fallout stand by for nuclear depth charge/bomb attack threat assessed is nuclear/nonnuclear threat warning water of anchorage is radiologically contaminated	NB1 EMERG O TA3 AM3 EMERG N NB8 TA71 NB14 NB12 AM13 NB2 RE9 AS4 AA5 EN34	30-2 28-1 3-3 33-1 12-1 3-3 28-1 33-7 28-2 12-3 28-1 30-2 13-2 10-2 19-5 28-1
NUMBER aircraft to launch/recover	AV26	14-4
MOT RELEASABLE mine reference number, mine contact is allocated	MW23 RE29	26-18 26-3 30-4 26-12

0

	Signal	Page
OAKTREE carry out ASW search plan OAKTREE	AS100 AS103	13-16 13-17
lost contact, carry out ASW search plan OAKTREE (ASW ACTION)		13-19
OBJECTIVE'S last known position	TA28	33-3
OBSCURED TARGET	GM14	22-3
OBSERVE MISSILE STRIKE (SURFACE ACTION)	3V	32-17
OBSTRUCTED (ING) (ION) alter course as necessary to clear obstruction	MW136 ED36 MW82	18-5 26-28 18-4 26-17 24-1
OBSTRUCTOR	MW117	26-19
oFFICER absence of flag officer (in port) absentee indicators assume command as OCE/OCS/OTC boat for officers, send calls by officers may be dispensed with command as OCE/OCS/OTC is held in unit delegation of OTC's functions disabled officer(s). follow movements of OTC I am OTC (indicator for approaching aircraft). join/rejoin your senior officer medical officer as soon as possible, send next meal, officers will have time for recall officer(s). reference position of OTC reference position XX of OTC for enemy report report on board, officer senior officer present afloat, national senior officer's movements, optional to follow standard position established by OTC (standard position indicator) table take charge, officer	(Art. 204) CO2 AD5 AD9 CO3 CO5 RE1 TA98 Flag Y TA86 AD18 AD24 AD27 NA22 NA29 AD40 STBD Flag 6 XX (Art. 165c) Table P CO8	2-15 2-15 17-1 11-1 11-2 17-1 17-2 30-1 33-10 2-8 33-8 11-3 11-3 11-4 27-3 27-4 11-5 2-13 2-9 35-1 1-46 34-14 17-2
OFFSET APPROACH to datum, intend	AS82	13-14

		0
	Signal	Page
OIL PATCH investigate oil patch		33-6 33-4
OPEN (ED) (ING) bay/channel/entrance/gate/harbor/port/river is open	70 4I STATION N SU7	18-6 10-4 32-20 5-5 32-2 32-12
OPERATION (S) (AL) acoustic gear operation	TA110 EN10 TA44	26-15 33-11 19-2 33-5 12-3
hamper opponent's operations	MW79 I SPEED TA110 AS60 X SPEED SPEED X	23-3 26-16 8-5 33-11 13-10 8-6 8-4 13-21
OPTICAL guidance (Flag G) signal	(Art. 2604a)	26-5
OPPOSING my boarding/boarding party, vessel is	IN5	24-1
ORDER (S) attention is called to operation order	ED48 TA110 AD33	11-4 18-5 33-11 11-4 17-2
forming in order of (See FORM) join/rejoin when present orders are carried out. mechanical sweep order patrol orders proceed in accordance with operation order received, orders have been. regain position in formation when orders are carried out. remain in present position and wait for further orders scouting line, order of units in; commencing from the left search orders.	MW80 TA129 TA88 AD34 TA77 TA78 TA128	33-8 26-17 33-13 33-9 11-4 33-8 33-8 33-13 33-14

MTP 1(D), Vol. II

0

	Signal	Page
sequence numbers are in order of call signs	TA140 AS64	4-10 33-15 13-11 26-21
ORIGIN grid origin, center of	NA22	27-3 27-3 33-3
ORIGINATOR		2-14 35-1
OTTER adjust depth of otter	MW67	26-16 26-15 26-16
OVERDUE, aircraft in distress is	AV7	14-2
OVERLAP, sweep	MW83	26-17
OVER-THE-HORIZON check/commence surface-to-surface missile fire (SURFACE ACTION) checked/commenced surface-to-surface missile fire, I have (SURFACE ACTION)	3E 3B	32-14 32-14 32-13 32-13
coordinated fire of long-range antisurface ship missiles (SURFACE ACTION)	3W	32-17 32-14
ACTION)	3J	32-17 32-14 32-17
ACTION)	3A	32-13
ACTION)	3Q	32-14 32-16 14-7
P		
PARADE GUARD/BAND	AD10	11-2
PARTICULAR degree of readiness	RE20	30-4

Index-62
NATO-UNCLASSIFIED

ORIGINAL

		Р
	Signal	Page
PASS (ING) act independently to pass shipping, resume station when clear ahead/astem/between lines/through formation of lines/ships departure intervals, pass point A at	TA103 ED39 ED49	33-9 33-10 18-5 18-5 33-9
track, passing in the	MW84	26-17
unit will pass through reference point at time	NA31	27-4
PASSIVE SONAR CONTACT (ASW ACTION)	1J	13-20
PATROL (LING) alter course, screen units continue to patrol sectors sequence numbers are in order of call signs spread on an arc in order of ships cease patrolling continue patrol direction and length of patrol leg establish and maintain aircraft patrols establish patrol number of assigned patrol lines in screen orders rejoin/remain on/resume patrol resume patrolling take screen patrol line vicinity of position your stations	S FORM TA140 SCREEN U TA133 TA132 AV41 TA126 N SCREEN TA129 TA133 SCREEN V SCREEN O TA131 SCREEN Z	7-8 4-10 33-15 9-6 33-14 33-14 14-7 33-13 9-8 33-13 33-14 9-6 9-5 33-14 9-6
PENNANTS, governing	(Art. 111)	1-6
PERISCOPE come to periscope depth	AS70 TA62 AS15 RA4 EMERG S	13-12 33-6 13-3 29-1 3-4 13-12
PERMISSION granted	NEGAT	2-2 2-12 15-1

P

	Signal	Page
PERSONNEL all men remain on deck	RE3 RE2	26-1 30-1 30-1 28-1
radioactivity	Flag A AM17 Flag P AD38 CM20 AD27 AM13 TA63 AV8 AV10 AD5 Table P RS1 AV17 RS8	28-1 2-1 12-4 2-5 11-5 16-4 11-4 12-3 33-7 14-2 14-1 34-14 31-1 14-3 31-3 2-4
PETROLEUM OIL LUBRICANT received/supplied	RS8	31-2 31-3 31-2
PHYSICAL THREAT WARNING	EN34	19-5
PICK (ED) UP aircraft	TA46	14-5 33-5 21-2
PICKET (S) aircraft radar picket patrols	P FORM FORM P T SCREEN SCREEN T STATION T	14-7 4-10 4-8 9-8 9-6 5-5 33-7
PINEAPPLE NOT RELEASABLE lost contact, carry out ASW search plan PINEAPPLE (ASW ACTION)	1C	13-19

Index-64
NATO-UNCLASSIFIED

		Р
	Signal	Page
PLAIN TEXT	DESIG (Art. 116)	2-11 1-9
PLAN action plan, carry out (SURFACE ACTION)	AS96 AS103 1C	32-19 13-16 13-17 13-19 13-16
attack according to plan attention is called to plan BLACK (SAC's/SAUC's intentions). command plan table communication plan in force EMCON plan modification EMCON plan promulgation. EMCON plan now in force EMCON plan, unit is to use line in execute/use plan frequency switch plan, use RED (SAC's/SAUC's intentions) torpedo attack plan (TORPEDO ACTION) towing plan zigzag plan (See ZIGZAG)	AD32 AS88 Table C CM9 EW13 EW12 EW11 EW3 CO12 EW5 AS88 9E	33-1 11-4 13-5 34-4 16-3 20-2 20-2 20-2 20-1 17-2 20-1 13-15 32-5 30-7
POINT SHIP	ED6	18-2
PORT get underway and proceed out of port	ED56 TA88 CO16	18-6 18-6 33-9 17-3 33-16
POSITION addressee's present position (standard position indicator) anchor in present/indicated position be in position at time center of the force (standard position indicator) center of the front of main body/convoy (standard position indicator) concentrate in position control point, position of danbuoy position indication. detach and take position to intercept contact. disposition center, position of. drop marker in position.	YY ED2 TA68 ZZ QQ SU6 TA69 NA23 MW53 AS21 NA22	1-45 35-1 18-1 33-7 35-1 35-1 32-2 33-7 27-3 26-13 13-4 27-3 13-15

P

	Signal	Page
enemy position	. EN12 . NA29	19-2 27-4
enemy report, use position for		19-3
extend duration of course and speed now steaming (PIM)	. NA25	27-3
firing unit position (SURFACE ACTION)		32-14
formation center, position of		27-3
grid origin is centered on position		27-3
indicator flag (See Art. 165)	. Flag P	2-5
	(Art. 165)	1-45
initial position for scheduled exercise		27-3
investigate datum/track in position		13-3
keep clear of position (ASW ACTION)		13-21
minefield (enemy) position	. MW9	26-2
minefield (own) established in position		26-2
mines have been found/reported in position		26-2
moor with anchors in present/indicated position		18-2
my grid position		27-3
my position		27-3
near your position, I will be		33-8
objective's last known position		33-3
obtained by method, position was		27-4
order submarine to indicate position		13-11
originator's present position (standard position indicator)		35-1
patrol in vicinity of position		33-14
point of origin of search		33-3
point of origin, position of		27-3
position and intended movement		27-3
post action rendezvous, position of		27-3
proceed as necessary to reach position		33-9
proceed to most advantageous torpedo attack position		32-4
proceed to position/rendezvous	. TA88	33-9
reference point position (SURFACE ACTION)		32-9
reference point, position of		27-3
reference position of OTC or unit		27-3
regain position in formation		33-8
remain in your present position		33-8
rendezvous from ZZ after nuclear attack (point ROMEO)		33-7
rendezvous in position		33-8
rendezvous position		27-3
screen center is in position		9-7
signal based on position system		27-4
sonobuoy position	. AS91	13-15
standard position for search or enemy report (standard position		o = ·
indicator)		35-1
standard position indicators		1-46
submarine's position was obtained by		13-8
surface action plan is based on keeping our forces in position		32-3
sweep with ship over position where sweep parted	. MW89	26-17

		P
	Signal	Page
unable to arrive in position at prescribed time	NA22 TA17	33-7 27-3 33-3 27-3
POSTPONE (D) exercise/event is postponed		21-1 14-3
PRECAUTIONS antinuclear effect	EW45 NA10 CM24	30-2 20-5 27-1 16-4 16-4
PREDICTED RANGE sonar		13-5 13-4
PREPARE TO (Governing Pennant) (Art. 111)	PREP (Art. 111)	2-9 1-6
prepare to engage with over-the-horizon antisurface ship missile (SURFACE ACTION)	,	32-13
PRESENT anchor in present position/sequence	CORPEN U FORM Z TA12 ED10 BG TA78	18-1 7-8 4-8 33-2 18-2 15-1 33-8 5-5
PRESERVE bearings and distances	TA11	33-2
PROBABLE YIELD	NB12	28-2
PROBABILITY, area of (SURFACE ACTION)	3T	32-16
PROCEED (ING) act independently to proceed through ICMO separation zone as indicated/previously directed/with dispatch	TA88 9F AM4	33-9 33-9 32-5 12-2 13-11

P

	Signal	Page
get underway and proceed out of port/at intervals	ED49	18-6
screening helicopters proceed to station		9-6 32-4
station or berth, proceeding to	CO16 CODE NEp2	2-11 17-3 13-12 32-4
PROPAGATION conditions	CM19	16-4
PROPER distance, take proper	TA15 TA104	33-2 33-2 33-11 2-13 5-2
PROTECTIVE devices, stream/launch	AS42	13-8
PROVIDE aircraft	AV42	14-5 14-7 31-2
PROVISIONS, transfer	RS8	31-3
PUBLICATION ATP 2, Vol. II, indicator	AD32 CM15	2-14 11-4 16-3 16-3
PULSING, carry out static	MW85	26-17
PUMP BILGES	AD26	11-3
PURSUIT ACTION, fight a	SU19	32-3
PYROTECHNIC (S) emphasize actions by use of pyrotechnics	TA120	33-6 33-12 13-13

MTP 1(D), Vol. II

		Q
	Signal	Page
QUADRILATERAL area	. TA123	33-13
QUARTER STATION, take	. STATION L	5-4
QUERY in progress/completed, query is		24-1 24-1
form in the quickest sequence (See FORM)		R
RACKET bearing of racket by D/F form SAU and investigate racket	. AS19 . EW26	20-3 13-3 20-3 33-6
RADAR aircraft holds contact on radar aircraft radar picket patrols calibration, carry out radar character of radar contact contact held by unit on radar (SURFACE ACTION) contact, I have lost radar (SURFACE ACTION) contact is believed to be radar beacon contact with enemy or unit, I have radar detection is submarine or small battle unit approaching harbor, disappearing radar contact detected bearing emission instructions enemy radar emissions intercepted exercise independently, remain within radar range friendly radar emissions intercepted, unauthorized guard duty, assume radar gunnery control radar is being jammed (SURFACE ACTION) holding radar contact bearing (ASW ACTION) investigating unclassified radar contact, I am keep within radar range. recognition, use radar means of release/fire radar decoys (SURFACE ACTION) submarine has released radar decoy (ASW ACTION) submarine indications by radar submarine's position was obtained by radar	. AV41 . RA2 . TA116 . 2K . 2H . RA4 . RA4 . TA23 . AS110 . EMERG W . EW9 . EW19 . EW28 . EX4 . EW27 . RA1 . 4Q . 1H . TA62 . EMERG Q . TA73 . TA118 . 7N . 2U . 1W . AS35	13-6 14-7 29-1 33-12 32-11 32-10 29-1 29-1 33-3 13-18 3-4 20-2 20-3 20-4 21-2 20-4 29-1 32-21 13-20 33-6 3-4 33-8 33-12 10-4 32-12 13-22 13-22 13-22 13-8

Index-69
NATO-UNCLASSIFIED

ORIGINAL

MTP 1(D), Vol. II

R

	Signal	Page
RADIATION HAZARD (RADHAZ/HERO/LASER)		
exists	CM25 CM20 CM24	16-4 16-4 16-4 16-4 2-5 16-4
warning (laser)	CM23	16-4
RADIO ACP/authentication/call signs/code/crypto channel/procedure/signal publication, use proper	CM37 CM36 CM14 CM35 CM38 CM37 CM22	16-6 16-6 16-3 16-6 16-6 16-6 16-4 16-6
check your keymat/receiver/steady key		16-1
circuit discipline is poor, your	CM32	16-5 16-5
false traffic		20-3
establish communications by radio		16-2 16-2
method, use radio	CM6	16-2
Nancy (See NANCY) no RF dander	CM2 CM20 CM26 CM27 CM37 CM2 CM17 CM1	2-2 16-1 16-4 16-5 16-5 16-6 16-1 16-4 16-1 16-2
RADIOACTIVITY (See NUCLEAR)		
RADIOSONDE, environmental data obtained by	ME11	25-2
RADIUS of station	U STATION	5-8
RAFT, object of search is	TA47	33-5

Index-70
NATO-UNCLASSIFIED

		R
	Signal	Page
RAISE domes		13-9 26-16
RAKE CODE	GM13	22-2
RANDOM DIP in sector, helicopter	AS87	13-15
firing range (TORPEDO ACTION) fouled, range	3U GM10 GM8 SU4 AS26 MW56 MW57 1O 9A GM7 AA3 TA73 SU7 1O AS27 AS23 AS28 2P GM14 SU16 AS29	13-5 32-17 22-2 22-2 32-1 13-5 26-14 13-21 32-5 22-2 10-1 33-8 32-2 13-21 13-5 13-4 13-5 32-11 22-3 32-3 13-5 13-5
	TA18	33-3
READINESS able to continue mission	AV35 RE50 RE21 RE20 RE42	30-2 14-6 30-6 30-4 30-4 30-6 30-4
READY aircraft/helicopters, ready to operate	RE29 1D	14-4 30-4 13-19 2-6

R

	Signal	Page
I am ready (towing)	AV28 BF BD BE AS75	30-7 14-5 15-1 15-1 15-1 13-12 15-1
REAR, take station in	STATION D	5-3
RECALL aircraft	Flag Q Flag P	14-5 2-5 2-5 11-4
RECEIVED petroleum oil lubricant/water	AD34	31-2 11-4 12-4
RECEIVER (See RADIO)		
RECOGNITION, use means of	TA118	33-12
RECOMMEND (governing group)	ВС	15-1
RECONNAISSANCE provide scouting aircraft for reconnaissance of enemy		14-7 10-2
RECOVER (ED) (ING) aircraft aircraft, carry out flight operations independently to recover aircraft/helicopters to recover, number of. aircraft in distress anchor is recovered. astern fueling rig landing craft. man overboard, proceed to recover mine countermeasures equipment protective devices already streamed sweep. torpedoes (See TORPEDO) towed arrays (See TOWED ARRAYS) variable depth sonar transducer (See VARIABLE DEPTH SONAR)	AV16 AV26 AV8 ED1 RS11 AM6 TA88 MW120 AS42 MW40	14-5 14-3 14-4 14-2 18-1 31-4 12-2 33-9 26-20 13-8 26-12
speed, recovering		8-6 33-16

MTP 1(D), Vol. II

		R
	Signal	Page
RECOVERY speed for impending recovery of aircraft		8-5 26-16
RECTANGLE, area is	TA123	33-13
REDESIGNATE CONTACT (SURFACE ACTION)	2D	32-9
RED THREAT WARNING	EN34	19-5
REDUCE speed		8-4 33-2 1-13
RE-EMBARK (ING) (ATION) causeways	AM2	12-2 12-2 12-3
REFERENCE attack sector with enemy as reference point	NA18 L SCREEN 2A 2B NA22	32-4 27-3 9-7 32-9 32-9 27-3
position XX for enemy report is OTC's reference position	NA31	1-46 27-4 27-4 1-43
REFORM the present screen	SCREEN X	9-6
REFUELING, intend to conduct helicopter operations for	AV17	14-3
REFUSE boat required		2-11 11-3
REGAIN POSITION in formation	TA77	33-8
REINFORCEMENTS needed at beach	AM14	12-3
REJOIN (ING) estimated time of rejoining	TA133	27-4 33-14 33-8

Index-73
NATO-UNCLASSIFIED

ORIGINAL

R

	Signal	Page
RELATIVE BEARINGS (AND DISTANCES) alter course, screen units maintain relative bearings		7-8
the Guide	EMERG	7-5 3-2 4-6
the Guide	TA11	4-8 33-2 4-4
ships resume previous relative bearings and distances from their guides		4-8 5-2
RELAY (ING) act as relay ship		16-5 16-3
RELEASE (ED) decoys (AAW ACTION)	2U	10-4 32-12 13-22
RELIEF REPORT	MW131	26-27
REMAIN (ING) all men remain on deck. ammunition remaining on board, rounds/percent of cease zigzagging, remain on course being steered formation/disposition, remain in present fuel remaining on board at noon, percent of getting underway, remain at notice for mine countermeasures equipment remaining night, remain during the patrol, remain on personnel remaining available for duty position, remain in present safe depth, order submarine to remain at screening helicopters remain on station station, remain in present. swept channel, remain in	RE29 TURN S FORM Z RE40 ED48 RE35 TA109 TA133 RE3 TA78 AS64 SCREEN S STATION U	26-1 30-4 6-5 4-8 30-5 18-5 30-5 33-11 33-14 30-1 33-8 13-11 9-6 5-5 18-5
RENDEZVOUS (See POSITION)		
REPAIR (S) act independently to repair damage or defects	RE34 RE33	33-9 30-5 30-5 14-5

Index-74
NATO-UNCLASSIFIED

ORIGINAL

		R
S	Signal	Page
REPEAT (ED) attack by repeated attacks	X3 X8 S101 D E	33-1 21-2 21-2 13-16 32-14 32-14 16-5
REPELLING, aim of action is	U2	32-1
REPLENISH (MENT) (See also TRANSFER) abeam method (ship indicator)	ORPEN N PEED L MERG 6 S9 CORPEN REP S12 Art. 3102) S8 Art. 3103) Art. 3101) S7 S10 SPEED TATION L V17 TATION L	2-6 7-6 8-2 3-5 31-3 7-10 2-12 31-4 31-6 31-7 31-5 31-2 31-3 8-6 5-4 14-3 5-4 33-16
REPORT (ED) (ING) action is completed, report when	S24 W126 W46 E16 S75 A88 D41 N23 N25 A29	15-1 32-16 13-4 26-24 26-12 30-3 13-12 33-9 11-5 19-3 19-4 27-4 35-1 19-3

R

	Signal	Page
last reported contact with enemy or unit make report. MCM OPDEF (MCMR 13A, 13B, 42). MCM SITREP. mine contact is to be reported mine detection/explosion report minehunting task situation report minelaying report. mines reported in position officer report on board range to danbuoy on passing. ready, report when (governing group) relief report. routine reports, make. smoke previously reported start/stop time (MCMR 10) station, report when you are in target reporting (See TARGET)	AD39 MW129 MW130 MW105 MW128 MW111 MW25 MW12 AD40 MW57 BE MW131 ANS TA149 MW127	33-3 11-5 26-25 26-26 26-18 26-25 26-19 26-3 26-2 11-5 26-14 15-1 26-27 2-10 33-16 26-24 5-5
time you will be ready, report (governing group)	BD ME9	15-1 25-1
REQUEST PERMISSION (governing group)	ВН	15-1
REQUIRE (D) assistance	RS4	30-2 31-2 30-6
RESCUE (D) aircraft rescue patrols	TA63 FORM L AV10 AV8 RE7	14-7 33-7 4-7 14-2 14-2 30-2 30-3
RESUME (D) act independently to clear shipping, resume station when clear base course (See BASE COURSE) bearings and distances are to be resumed	TA11 1Z TURN D EX3 AV16	33-9 33-2 13-22 6-4 21-1 14-3 4-8

		R
	Signal	Page
relative bearings and distances from the Guide, line guides resume previous	FORM V	4-8
previous	SCREEN A STATION E 3E 3D CO14	4-8 9-2 5-3 32-14 32-14 17-3 17-3
RETARDED, landing schedule is	AM15	12-3
RETIRE (ING) course after firing, retire on (TORPEDO ACTION)		32-6 32-3
RETRACT CAUSEWAYS	AM4	12-2
RETROGRADE, transfer	RS8	31-3
RETURN to your station	TA133	33-14
REVERSE (ING) form column in reverse order of sequence numbers	FORM F	4-2 4-6 8-1
ROCKET attacked with rockets, I am being	4F 4G TA30	33-1 32-20 32-20 33-4 10-2
ROTATE AXIS to bearing	FORM P	4-8
ROUND UP STRAGGLERS	TA61	33-6
ROUTINE, ship out of	PORT	2-13
RUDDER my rudder is left/right		6-7 33-11
RULES OF ENGAGEMENT	CO17	17-3

MTP 1(D), Vol. II

R

	Signal	Page
RUN commence run commenced. completed. degaussing runs run is	MW43 MW44 Flag D EX8	21-1 26-12 26-12 2-3 21-2 26-12
S		
SABOTEURS DETECTED	EMERG K	3-3
SAFE (TY) buoy safe channel follow at safe speed identification safety range mine countermeasures speed over the ground. order submarine to remain at safe depth/steer safety course safety course safety sector(s) for friendly aircraft shaft power available for ensuring safety. steer safety course submarine safety course submarine safety, length of variable depth sonar cable for. weapon safety range	SPEED U AA3 Q SPEED AS64 E CORPEN AA4 RE47 CORPEN E AS67 AS66	26-4 8-4 10-1 8-6 13-11 7-9 10-1 30-6 7-4 13-11 13-2
SALUTE CEREMONIALLY, fire a	AD10	11-2
SALVAGE PARTY, require	RE7	30-2
SALVOS (SURFACE ACTION)	3F	32-14
SCATTER, all ships	EMERG 0	3-5
SCENE OF ACTION COMMANDER assume command as SAC	CO2 CO3	13-3 17-1 17-1 13-3
SAC's intentions		13-15
SCHEDULE (D) commence the scheduled gunfire support	AM7 NA21	22-3 12-2 27-3 12-3

MTP 1(D), Vol. II

	Signal	Page
SCOUTING AIRCRAFT (See AIRCRAFT)		
SCOUTING LINE change direction of line of bearing of scouting line	TA125 TA135 TA127 TA128	33-14 33-13 33-14 33-13 33-13 33-14
SCREEN (ED) (ING) adjust station to close gap in screen		9-4
ahead of main body/convoy/unit	SCREEN W W SCREEN L SCREEN SCREEN Q	9-8 9-7 9-5
departure screen, form	D SCREEN SCREEN E E SCREEN SCREEN H H SCREEN (Art. 900) B SCREEN N SCREEN	9-2 9-7 9-2 9-7 9-4 9-7 9-1 9-7 9-8 9-8
proceed to side of screen. reform the present screen in sector screening helicopters proceed to/remain in station. sector screen is formed. sector screen using screen center, form sequence of screen units clockwise from mean line of advance shift boundaries of screen sector assigned. ships carry out independent zigzag. ships close to distance. skeleton screen using skeleton screen diagram, form speed. take screen sector or station take screen station while unit is absent. unit is screened.	SCREEN X SCREEN S K SCREEN K J SCREEN P TURN H EMERG 8 SCREEN G A SPEED SCREEN O SCREEN L I SCREEN	33-9 9-6 9-6 9-7 9-4 9-7 9-5 6-4 3-5 9-3 8-5 9-5 9-4 9-7

	Signal	Page
SCREEN COORDINATOR assume command as	CO2	17-1
delegated to		17-2 17-1
SCREW COUNT	AS38	13-8
SCUTTLE SHIP	TA48	33-5
SEA operate in sea echelon area		12-3 25-1
SEARCH (ED) aircraft search (air plan number)	CORPEN S	13-16 7-8 29-1
cease passive search and commence active search	MW34	13-4 26-4 13-14 33-14
direction of search axis	P FORM TA124 AS99 MW121 MW110 TA47 TA138 TA28 XX AS101 FORM P	33-14 4-10 33-13 13-16 26-20 26-19 33-5 33-14 33-3 35-1 13-16 4-8
sonar search, conduct speed	AS93 O SPEED AS53 AS92	13-16 13-15 8-6 13-10 13-15 13-7
SEARCH ATTACK UNIT assume command as SAU commander	CO2 CO7 CO3	13-3 17-1 17-2 17-1 13-3

		S
	Signal	Page
form SAU and investigate	AS18 AS88	13-3 13-3 13-15 13-3
SEARCH LIGHT (S) carry out trials or tests of search lights	TA49 4F TA120 4G TA30	21-2 33-6 32-20 33-12 32-20 33-4 33-5
SEARCH TURN	CORPEN S	7-8
SECTOR area is sector	9G SCREEN Q NB1 SCREEN D SCREEN E Z FORM AS87 9H N SCREEN 9F SU31 SCREEN X SCREEN A AA4 B SCREEN A H SCREEN H SCREEN H K SCREEN K	33-13 32-5 9-5 28-1 9-2 9-2 4-10 13-15 32-5 9-8 32-5 32-4 9-6 9-2 10-1 9-7 9-7 9-7 9-4 9-5
standard sector system. stationed by sector method, main body is stationed by sector method, main body is to be take screen sector take station in sectors (ASW ACTION). take station within your sector threat sector withdraw pickets from sectors your sector for attack (torpedo) will be	(Art. 167) V STATION STATION K SCREEN O 1T SCREEN M AA6 TA66	1-47 5-8 5-4 9-5 13-22 9-5 10-2 33-7 32-4

	Signal	Page
SECURE (D) anchor is secured. alongside me/berth/unit. anchors. buoys, secure to visual watch.	ED28 ED18 ED29	18-1 18-3 18-3 18-4 16-1
SEDUCTION antiship missile defense course for seduction	2T	6-6 32-12 6-4
SEEKER SETTINGS I am using seeker settings (SURFACE ACTION)		32-16 32-16
SEMAPHORE establish communications by semaphore message to transmit	Flag J CM6	16-2 2-4 16-2 16-6
SEPARATION, track	MW48	26-12
SEQUENCE anchor in present sequence assume sequence number and take station accordingly form in order of sequence numbers/in the quickest sequence (See FORM) hoist your sequence number replenishment sequence scouting line order by sequence numbers, commencing from the left numbers numbers are in order of call signs following screen units clockwise from mean line of advance spread on an arc in the quickest sequence. track sequence units clockwise from station units from left to right	STATION F STATION V RS10 TA128 (Art. 113) S FORM J SCREEN TA141 MW48 J STATION	18-1 5-3 5-5 31-3 33-13 1-8 4-10 9-7 33-15 26-12 5-7 5-7
SERVICE LINES, take interval between	TA15	33-2
SET all controlled minefields are set	AS8 AS56	26-2 13-2 13-10 26-17

		S
	Signal	Page
SHADOW (ING) enemy is shadowing unit		19-4 23-1
SHAFT POWER available	RE47	30-6
SHEER OUT	TA105	33-11
SHIFT berth to berth/buoy	SCREEN P 4L CM8	18-4 9-5 32-20 16-2 16-3
SHIP (PING) act independently to clear shipping, resume station when clear adjust station to admit ship	STATION I EMERG 0	33-9 5-3 3-5 18-2
close up, leaving places vacant/without regard for ships out of formation	EMERG D TA29 RE9 NB2 TA53 RE11 TA36 TA57 EN27	33-10 3-2 33-3 30-2 28-1 33-6 30-3 33-4 33-6 19-4 3-3 30-3
flooding, ship is goalkeeping station, ship take head head (towing) investigate suspicious ship/ship without lights join/rejoin as leading/rear ship maneuver your unit to avoid shipping number of ships assigned to screen number of ships in enemy formation pass ships unable to keep station readiness of ship relay ship, act as rescue crew of ship sinking/sunk scuttle ship sighted ships without lights station, ships maintain	RE18 STATION H ED12 6C TA62 TA86 TA101 M SCREEN EN21 TA103 RE42 CM26 TA63 TA48 TA30	30-3 30-3 5-3 18-3 30-7 33-6 33-8 33-10 9-8 19-3 33-10 30-6 16-5 33-7 33-5 33-4 5-5

	Signal	Page
stations, ships exchange	1X STATION G	5-4 13-22 5-3 30-6
SHORE THREAT WARNING	EN34	19-5
SHORT SCOPE BUOY, let go	MW52	26-13
SHORT STAY anchor is at short stay		18-1 18-3
SHOT angle (TORPEDO ACTION)	4S SU8	32-6 32-21 32-2 32-21
SHOW (ING) no light (or only lights)	SPEED K	33-4 8-2 33-5
SIDE, SUBMARINE is close to my (ASW ACTION)	1X	13-22
SIGHT (ED) (ING) aircraft presumed hostile sighted bearing enemy missile sighted bearing enemy surface craft sighted bearing fog in sight in direction friendly force/unit sighted hazard (iceberg/reefs/rocks/shoals) sighted man overboard has been sighted mine sighted mine sighted mine sighted ahead object sighted sighting is submarine or small battle unit approaching harbor submarine indications by sighting submarine sighted bearing submarine's position was obtained by sighting survivors sighted survivors sighted survivors sighted survivors sighted bearing unidentified aircraft sighted bearing unidentified surface craft sighted bearing	EMERG G EMERG E ME3 TA26 TA30 TA46 MW116 EMERG M TA30 AS110 AS35 EMERG S AS68 AS37 TA30 MW88 SU35 EMERG T EMERG B	3-2 3-2 3-2 25-1 33-3 33-4 33-5 26-19 3-3 33-4 13-18 13-7 3-4 13-11 13-8 33-4 26-17 32-4 3-4 3-2 3-2

MTP 1(D), Vol. II

	Signal	Page
SIGNAL (S) (ING)		
acknowledging (See ACKNOWLEDGED)		
ACP 148 series, signals taken from	4th	2-14
adjust station to facilitate signaling	STATION I	5-3
affirmative reply to signal	Flag C	2-2
answering (See ANSWER)		
canceled		2-12
description signals	(Art. 114)	1-9
detail a ship to carry out signal		33-6
emergency landing signals (aircraft use)	(Art. 1400)	14-1
execute all signals flying under a similar call	EMERG	2-11
		3-1
expedite signals	CM11	16-3
fast patrol boat maneuvering signals		32-23
fire explosive signal charges	AS63	13-11
	EX5	21-2
flag signals for submarine and antisubmarine exercises		
general information		2-14
general information and action		2-14
helicopter transfer/vertical replenishment signals		31-6
International Code of Signals		1-10
International Code of Signals, group following from		2-10
meaning, signals with more than one		1-4
3, g		1-4
		31-7
not understood		2-11
operating signals		1-9
optical guidance (Flag G) signals		26-5
originator		2-14
permission granted		2-2
permission not granted		2-12
position signal is based on system		27-4
publication, following signals taken from		16-3
publication used for following signals, groups from		16-3
sound fog signals		27-1
submarine pyrotechnic signals		13-13
supplementing signals	(Art. 110)	1-6
surface action group signal table		32-25
time signal (governing group)		15-1
	(Art. 164e)	1-44
As we add finite a signal consist day.	(Art. 164g)	1-44
torpedo firing signal, special day	` ,	32-7
torpedo firing signals, special night		32-7
use and interpretation of signals		1-3
use proper ACP/signal publication	UIVI3/	16-6
visual signals (See VISUAL)		

	Signal	Page
SILENCE break silence/transmit on	EW2 EW7	20-1 20-1 20-1 13-10
SIMULATE ATTACK	TA7	33-2
SIMULTANEOUS ATTACK	TA2	33-1
SINGLE flags and pennants	(Art. 200)	2-1
SINGLE SIDEBAND establish communications by single sideband		16-2 16-2
SIREN emphasize actions by use of siren		33-6 21-2
SKELETON SCREEN (See SCREEN)		
SLIP (PED) anchor is slipped	MW69 MW88	18-1 26-15 26-17
take duty as slip ship	MW73	26-16
SMALL BATTLE UNIT detection/sighting is small battle unit approaching harbor enemy small battle unit detected		13-18 3-3
SMOKE attack under smoke screen. carry out trials or tests of smoke-making equipment cover withdrawal by smoke. drop smoke floats. investigate smoke make smoke sighted smoke/smoke bomb smoke previously reported	EX11 AM19 TA147 TA62 TA148 TA30	33-1 21-2 12-4 33-15 33-6 33-15 33-4 33-16
SNORT come to snort depth investigate snort leave present assignment to investigate snort radar contact is believed to be snort snort sighted bearing submerge to snort depth	TA62 AS15 RA4 EMERG S	13-12 33-6 13-3 29-1 3-4 13-12

Index-86
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

	Signal	Page
CONAD		
SONAR	41	12.20
active sonar contact (ASW ACTION)		13-20
aircraft holds contact on active/passive sonar		13-6
condition of helicopter/hull sonar		13-9
contact held by unit on sonar (SURFACE ACTION)		32-11
contact is (ASW ACTION)		13-21
contact (quality) (ASW ACTION)		13-22
detection may be submarine or small battle unit approaching harbor		13-18
establish communications by sonar		16-2
frequency of sonar equipment		13-9
friendly sonar emissions intercepted, unauthorized		20-4
I have sonar contact (ASW ACTION)		13-21
I have sonar contact with enemy or unit		33-3
investigate sonar contact		33-6
investigate sonar contact, leave present assignment to	AS15	13-3
investigating unclassified sonar contact bearing	EMERG Q	3-4
lost sonar contact, I have (SURFACE ACTION)	2H	32-10
maximum/optimum sonar speed	P SPEED	8-6
method, use sonar		16-2
mine countermeasures sonar search procedure		26-20
mode of sonar operation		13-10
operate sonar in active/passive mode (ASW ACTION)		13-21
operation of sonar emission equipment		13-10
passive sonar contact (ASW ACTION)		13-20
predicted sonar ranges		13-5
predicted submarine intercept range of sonars		13-4
proceed at maximum/optimum sonar speed		8-4
range predictions, units make sonar		13-5
recognition, use sonar means of		33-12
relay ship, act as sonar		16-5
search, conduct sonar		13-15
silence all sonar emission equipment		13-10
submarine has released sonar echo decoy (ASW ACTION)		13-10
submarine indications by sonar		13-22
submarine's position was obtained by sonar		13-7
		13-6
tactical sonar range	A320	13-3
towed arrays (See TOWED ARRAYS)	A C E 7	13-10
unable to operate sonar effectively	A331	13-10
variable depth sonar domes/transducers (See VARIABLE DEPTH		
SONAR)	4050	40.40
watch, set sonar		13-10
weather is suitable for sonar operations	TA154	33-16
OONOBLOY		
SONOBUOY	10440	40.40
detection may be submarine or small battle unit approaching harbor		13-18
holding sonobuoy contact bearing (ASW ACTION)	1F	13-19

	Signal	Page
in contact/not in contact or operating/not operating effectively investigating unclassified sonobuoy contact bearing keep clear of sonobuoy field (ASW ACTION)	EMERG Q 10 AS90 AS91 AS35	13-8 3-4 13-21 13-15 13-15 13-7 13-8
SOUND fog signals		27-1 16-6
SOUNDING depth of water	AM5	12-2
SPACE THREAT WARNING	EN34	19-5
SPACING circle spacing		33-2 33-15
SPEED	F SPEED SPEED J B SPEED SPEED B	1-47 8-5 8-2 8-5 8-1 8-2
cavitation speed (See CAVITATION) changing speed. contact course and speed (SURFACE ACTION). convoy speed. current, direction and speed decrease speed. drift speed and direction economical speed of ship. economical speed, proceed at enemy speed. flag indicators. flags. flags, show speed follow OTC's movements in altering course and speed forecast EFW, direction and speed. fuel will last at present speed. Guide's speed (See GUIDE)	Z SPEED NA6 SPEED D 6B V SPEED SPEED O E SPEED (Art. 802) (Art. 125) SPEED K TA98 NB8	8-5 32-10 8-6 27-1 8-1 30-7 8-6 8-4 8-5 8-7 1-17 8-2 33-10 28-1 8-5
increase speed	AS65	8-2 13-11 1-16
maximum speed (See MAXIMUM SPEED) my LOGSPEED	L SPEED	8-5 8-6

Index-88
NATO-UNCLASSIFIED

ORIGINAL

		S
	Signal	Page
normal speed		8-6 8-4
proceed at speed	SPEED R	8-2 8-4 33-11
replenishment speed (See REPLENISH) safe mine countermeasures speed over the ground safe speed, follow at screen speed search speed set torpedo for speed (TORPEDO ACTION) shaft power available for maximum/indicated speed sonar speed, maximum/optimum sonar speed, proceed at maximum/optimum speed in excess of, not required until. stop (See STOP)	SPEED U A SPEED O SPEED 9P RE47 P SPEED SPEED P	8-6 8-4 8-5 8-6 32-6 30-6 8-6 8-4 8-6
streaming speed	SPEED Y AS94	8-6 8-4 13-15 13-21
use turn count masking/differentiate propeller revolutions	6U INT SPEED	8-4 30-9 8-1 25-1
SPLASH CAUSEWAYS	AM4	12-2
SPLICE THE MAIN BRACE	AD28	11-4
SPLIT FIRE DISTRIBUTION (SURFACE ACTION)	4J	32-20
SPREAD arc in order of ships, spread on an	TA141 AD22 4H TA139 9H	33-15 33-15 11-3 32-20 33-15 32-5 26-16
STAND BY FOR ASW weapon firing (ASW ACTION)		13-19 13-2

	Signal	Page
STANDARD distance	(Art. 121) XX (Art. 165c) TA14 (Art. 122) TA104	33-2 1-13 35-1 1-46 33-2 1-13 33-11 33-2
STANDBY STATION, take		5-4
STANDING INTO DANGER, you are	EMERG U	3-4
STAND-OFF RANGE, emergency/operational (ASW ACTION)	10	13-21
STARSHELL fire starshell search spread (SURFACE ACTION)	4F TA120 4G	32-20 32-20 33-12 32-20 33-4
START/STOP TIME (MCMR 10)	MW127	26-24
STATION (ING) act independently to clear shipping, resume station when clear adjust station (See ADJUST STATION) aircraft air defense, take loose station on carrier for approach disposition area, take station in assignments assume sequence number and take station accordingly center of beach, take station on bearing and distance from diving station, take submarine forward observer station (SURFACE ACTION) Guide or unit ahead at standard distance, take station from Guide or unit astern at standard distance, take station from hoist your station number	AV28 STATION W STATION Z STATION S STATION F AM12 AS71 3Y STATION A STATION B STATION V (Art. 127)	5-6 5-5 5-3 12-3 13-12 32-17
main body stationing (See MAIN BODY) maintain minesweeping station astern of float of next ahead mine countermeasures ships open from the Guide and take station my station	STATION N M STATION STATION Y	5-5

MTP 1(D), Vol. II

S

	Signal	Page
patrolling stations (See PATROL) picket stationing (See PICKET) proceed to station	DESIG STATION X U STATION STATION D STATION U STATION L STATION R STATION E	33-9 2-11 5-6 5-8 5-3 5-5 5-4 5-5 5-3 33-14
sector, take station within your	SCREEN M	9-4
sequence of units (See SEQUENCE) ship take goalkeeping station	STATION G STATION J STATION P (Art. 128)	5-3 5-3 5-4 5-5 1-18 1-17
surfacing station, take submarine		13-12 2-13
take station (ASW ACTION) take station on circle and bearing take station on true/relative bearing at standard distance target reporting unit reporting from station (SURFACE ACTION) target reporting unit take station and report (SURFACE ACTION) unable to keep station unassigned station numbers unit is in station unit's station van, take station in the what is your station?	1T STATION STATION 3I 3H B STATION T STATION A STATION M STATION STATION C	5-2 5-3 13-22 5-2 5-2 32-14 32-14 5-7 5-8 5-7 5-7 5-3 N 5-2
STEAM (ING) estimated time of being at new notice for steam		30-6 27-3
STEER (ING) boat signals	EX11 CORPEN A CORPEN P AS64	2-9 21-2 7-4 7-8 13-11 7-4

Index-91
NATO-UNCLASSIFIED

	Signal	Page
STEERAGEWAY, proceed at	SPEED V	8-5
start/stop time (MCMR 10) stop (towing). The way is off my ship. start and steady on course	SPEED 0 AS53 MW134 AS65 SPEED A MW127 6L	8-4 8-1 13-10 26-28 13-11 8-1 26-24 30-8 2-10 6-2 7-4
turn and steady on course indicated		7-4 7-4 30-7
STORES close for transfer of stores	AD5	31-1 11-1 31-3
STORM ship is damaged by storm		30-3 25-1
STRAGGLERS, escort/round up	TA61	33-6
STREAM (ING) astern fueling rig (See ASTERN FUELING) fog buoy mechanical sweep proceed at streaming speed and stream sweep protective devices streaming speed sweep. target sled towed arrays (See TOWED ARRAYS)	MW80 SPEED Y AS42 Y SPEED MW40	27-1 26-17 8-4 13-8 8-6 26-12 21-2
SUBDIVISIONS, form (See FORM)		
SUBMARINE aircraft has indicated contact with submarine	1K	13-1 13-20 13-22
contact, I have CERTSUB/PROBSUB/POSSUB sonar (ASW ACTION)	1R	13-21

MTP 1(D), Vol. II

	Signal	Page
contact is CERTSUB/PROBSUB/POSSUB, consider your present		
(ASW ACTION)	1S	13-21
contact, I have PROBSUB/POSSUB submarine	EMERG R	3-4
decoy, submarine has released (ASW ACTION)		13-22
depth of submarine		13-6
detection may be submarine approaching harbor		13-18
diving course		13-12
diving station, take submarine		13-11
enemy miniature submarines detected		3-3
enemy submarine has reported this force		19-4
enemy submarine is laying mine		19-2
enemy submarine is marking unit	EN30	19-4
enemy submarine is shadowing unit		19-4
enemy submarines are believed to be in vicinity	AS77	13-13
hold down enemy submarine following force	AS3	13-2
indications		13-7
investigating unclassified contact which may be a submarine, I am		3-4
limiting courses and speeds		13-15
location (ASW ACTION)		13-21
movement of submarine		13-7
object of search is submarine		33-5
order submarine to		13-11
position was obtained by		13-8
predicted submarine intercept range		13-4
proceed clear of submarine		13-11
proceed with caution; submarines are exercising in area		
pyrotechnic signals		
radar contact is believed to be submarine		29-1
safety course		13-11
search for submarine at datum		13-15
sighted submarine bearing		3-4
sighted submarine signal		13-11
sighted unidentified submarine		33-4
surfacing station, take submarine	AS72	13-11
suspect submarine has fired torpedo; keep clear and take	A C 4 4	12.0
countermeasures		13-8
turn on submarine identification light		33-5
underwater communications with submarine (ASW ACTION)		13-20 13-12
unit responsible for surfacing submarine		13-12
variable depth sorial cable length for submarine salety	A300	13-11
SUBMARINE ATTACK		
expected now, submarine attack may be	ΤΔ22	33-3
maneuver independently to avoid submarine attack		33-9
screen unit against submarine attack		9-4
support unit against submarine attack		33-7
threat warning		19-5
unit screened against submarine attack		9-7
		٠.

	Signal	Page
SUBMERGE	AS69	13-12
SUBSTITUTES	(Art. 161)	1-42
SUCCESSION anchor in succession from the rear	FORM F MW48	18-1 4-6 26-12 32-6
SUNK enemy ships have been sunk. friendly unit sunk	RE14 TA63	19-4 30-3 33-7 32-4
SUPERHEATERS, light	RE46	30-6
SUPPLIED, petroleum oil lubricant/water	RS5	31-2
SUPPORT carry out ASW support method		13-18 17-2 33-7
SURFACE (ING) action group (See SURFACE ACTION GROUP) aim of action against enemy surface forces	SU2	32-1
do not commence surface fire until identity is established enemy formation appears to be surface action group enemy high-speed surface craft detected bearing enemy surface craft sighted bearing enemy surface unit has reported unit enemy surface unit is laying mines enemy surface unit is marking unit enemy surface unit is shadowing unit fight a surface action order submarine to surface (come to depth) radar contact is believed to be surface craft surface action plan is based on keeping our forces in position surface craft detected bearing take submarine surfacing station unidentified surface craft sighted bearing unit responsible for surfacing submarine	EN20 EMERG K EMERG E EN25 EN8 EN30 EN29 SU19 AS64 RA4 SU23 EMERG J AS72 EMERG E	32-1 19-3 3-3 3-2 19-4 19-2 19-4 19-4 32-3 13-11 29-1 32-3 3-3 13-12 3-2 13-12

		S
	Signal	Page
SURFACE ACTION GROUP assume command as SAG commander	SU10 CO7 CO3 SU11	17-1 32-2 17-2 17-1 32-2 32-25
SURFACE ATTACK maneuver independently to avoid surface attack	SCREEN I TA64 TA22 EN34	33-9 9-4 33-7 33-3 19-5 9-7
SURFACE WAVE	AM20	12-4
SURFACE WIND (See WIND)		
SURVIVORS object of search is survivors		33-5 33-4
SUSPEND (ED) boating		11-2 14-4
SUSPICIOUS electronic emissions indicating an immediate threat identify suspicious unit		3-3 33-12
SWEEP (ING) acoustic sweep while hunting, ships conduct continuous actuation width for sweep. adjust sweep or stream/veer/recover sweep armed with cutters, sweeps are to be calibrate otters for deep/normal sweeping clear sweep, haul out of formation and cut sweep. de-energize sweeps when passing, ships are to depth is to be set/adjusted energize/de-energize sweeps fire explosive sweep salvoes mechanical sweep order obstruction is being dragged in sweep overlap proceed at streaming speed and stream sweep	MW91 MW40 MW66 MW67 MW82 MW69 MW84 MW90 MW74 MW75 MW80 MW82 MW83	26-19 26-17 26-12 26-15 26-15 26-17 26-17 26-16 26-16 26-17 26-17 26-17 8-4

	Signal	Page
set echo sweep	MW89 MW88 MW69 Y SPEED MW93	13-10 26-17 26-17 26-15 8-6 26-18 33-15
SWEPT adjust gear to give swept depth	MW34	26-16 26-4 26-4
mine swept	MW92	26-19 26-18 26-12
SYNCHRONIZE watches/zigzag clock		27-5 32-6
Т		
TABLES	(Art. 118)	1-10
TACTICAL SONAR RANGE	AS28	13-5
TAP HULL; proceed clear of submarine, stop engines, and	AS65	13-11
TAKE action (aircraft operation)	BV CO16 AS21 TA12 EMERG 1 TA15 CO8 SCREEN O	14-5 15-1 17-3 13-4 33-2 3-5 33-2 17-2 9-5
torpedo countermeasures	AS43	13-8
TARGET abandon/pick up/stream/tow/transfer/veer target	EW19	21-2 20-3 14-7

MTP 1(D), Vol. II

Т

	Signal	Page
cease fire on target (SURFACE ACTION)	. 4E . RA6	32-19 32-19 29-1 32-11
conducting over-the-horizon attack on target, I am (SURFACE ACTION)	. 3B . GM14 . 4B 2N	32-13 32-13 22-3 32-19 32-11 32-14
engage target with over-the-horizon antisurface ship missile, prepare to (SURFACE ACTION)		32-13 32-19
ACTION)	. 4M . 3N . 3O . 3L . 3M . GM24 . 4F . 2H . 2P . 2Q . SU16 . 4L . GM14 . 3D . 3E . 3I . 3H . NA34 . EW20 . 4N	32-20 32-15 32-15 32-15 32-15 32-15 22-3 32-20 32-10 32-11 32-12 32-3 32-20 22-3 32-14 32-14 32-14 32-14 27-4 20-3 32-21 20-3
TASK cease/resume now, all tasks are to. cycle to be used minehunting task allocation. minehunting task situation report. order stop present task and proceed to. turn on task lights	. MW132 . MW110 . MW111 . MW125 . MW134	26-28 26-27 26-19 26-19 26-21 26-28 33-5
TASK ORGANIZATION, assume	. CO10	17-2

Index-97
NATO-UNCLASSIFIED

T

	Signal	Page
THREAT assessment	AA6 EMERG I	10-2 10-2 3-3 19-5
THROW-OFF COURSE	T CORPEN	7-10
TIGHT AAW weapons tight (AAW ACTION)		10-4 13-2
TIME	(Art. 164)	1-43
target, estimated time of be in position at time check COMEX time firing, time of (TORPEDO ACTION) hour is at time. indicator flag indicator (governing group) notice (hour) for getting underway readiness/steam, estimated time of replenishment, estimated time of commencing/completing report time you will be ready (governing group) synchronize time of hitting (TORPEDO ACTION) wind, time into zero time indicated by execution of signal/hour zone indicators zone time, use	TA68 (Art. 164c) AS76 9D AM7 Flag T (Art. 164c) BT (Art. 164e) (Art. 164g) RE49 RE50 RS12 BD 9T AV29 NA36 (Art. 164h)	27-4 33-7 1-44 13-12 32-5 12-2 2-7 1-44 15-1 1-44 30-6 30-6 31-4 15-1 32-6 14-5 27-5 1-45 27-5
TORPEDO antihoming torpedo speed, proceed at high attack by torpedo (See TORPEDO ATTACK) base torpedo course (TORPEDO ACTION) chase and recover torpedoes. close enemy to disguise moment of firing (TORPEDO ACTION) close range to effective/maximum torpedo range close target by steady bearings (TORPEDO ACTION). deflection angle (TORPEDO ACTION). destroyers with/without torpedoes concentrate on unit. detected/sighted bearing. fired by ships of my unit, torpedoes have just been	9L SU35 9I SU4 9Z 9R TA69 EMERG T	8-2 32-5 32-4 32-5 32-1 32-6 32-6 33-7 3-4 32-4

MTP 1(D), Vol. II

		Т
	Signal	Page
fire torpedoes (TORPEDO ACTION) maneuvering to unmask torpedo tubes mean torpedo course (TORPEDO ACTION) misfire bearing object of search is torpedo open range to maximum torpedo range operate torpedo detection equipment point of aim for firing (TORPEDO ACTION) recovered/in sight bearing/have sunk, torpedoes are to be recovered/number recovered, torpedoes have been retire on course after firing (TORPEDO ACTION) set torpedoes to ceiling/floor/initial search depth set torpedoes to run at depth (TORPEDO ACTION) set torpedoes for speed (TORPEDO ACTION) set torpedoes for speed (TORPEDO ACTION) ship is damaged by torpedoes shot angle (TORPEDO ACTION) special day torpedo firing signal special night torpedo firing signals stream/launch torpedo decoys strike target at, torpedo will (TORPEDO ACTION) suspect submarine has fired torpedo; keep clear and take	. SU9 . 9M . AS12 . TA47 . SU7 . AS43 . 9J . SU35 . SU33 . 9Y . AS7 . 9O . 9P . RE11 . 9N . (Art. 3207) . (Art. 3206)	32-5 32-2 32-5 13-2 33-5 32-2 13-8 32-5 32-4 32-6 13-2 32-6 32-6 32-6 32-7 32-7 13-8 32-6
countermeasures	. 9T . AS43 . 9Q . 9S	13-8 32-6 13-8 32-6 32-6
time of firing (TORPEDO ACTION). turn as required and fire (TORPEDO ACTION) turn in succession and fire (TORPEDO ACTION) turn together and fire (TORPEDO ACTION). weather is suitable for recovering torpedoes.	. 9D . 9V . 9W . 9X	32-5 32-6 32-6 32-6 33-16
TORPEDO ATTACK attack by torpedo may be expected now attacked with torpedoes, I am being attack in sector (TORPEDO ACTION) attack with torpedoes (TORPEDO ACTION) maneuver independently to avoid torpedo attack method of attack (TORPEDO ACTION) plan, use attack (TORPEDO ACTION) proceed to attack sectors (TORPEDO ACTION) proceed to most advantageous torpedo attack position screened against torpedo attack, unit is screen unit against torpedo attack submarine's position was obtained by torpedo attack support unit against torpedo attack.	. TA3 . 9G . 9C . TA93 . 9H . 9E . 9F . SU30 . I SCREEN . SCREEN I	33-3 33-1 32-5 32-5 32-5 32-5 32-5 32-4 9-7 9-4 13-8 33-7

T

	Signal	Page
TOW (ING) approach commencing/ready to commence tow, I am conditions me/unit require towing assistance take target in tow tow tow towing operations weather is suitable for towing will take you under tow	6S 6W 6A RE7 EX10 RE43 Flag 6 TA154	30-7 30-9 30-7 30-2 21-2 30-6 2-9 33-16 30-7
TOWED ARRAYS act independently to launch/recover towed arrays	AS106 AS48 AS59	33-9 13-18 13-9 13-10 2-7
TRACK (ING) assume tracking/boarding responsibility for contact conduct minehunting on track course investigate track, be prepared to illuminate and engage leave present assignment and investigate track passing in the track sequence/separation spacing status target and be prepared to engage (SURFACE ACTION)	MW114 L CORPEN SU12 AS16 MW84 MW48 TA143 MW47	24-2 26-19 7-9 32-2 13-3 26-17 26-12 33-15 26-12 32-21
TRANSFER (ING) (See also REPLENISH) abeam method (ship indicator)	RS1 AV17 (Art. 3102) RS3 RS8 AM16 RS6 STATION L EX10 RE43 Flag B	2-6 31-1 14-3 31-6 31-1 31-3 12-4 31-2 5-4 21-2 30-6 2-2 33-16
TRANSMIT break silence/transmit on	Flag J	20-1 2-4 13-10

Index-100
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

		Т
	Signal	Page
TRANSMITTER (See RADIO)		
TRANSPORT (S) (ING) operate in transport area	Flag B	12-3 2-2 12-4
TRUE BEARINGS (AND DISTANCES) alter course, maintain true bearings and distances from the Guide line guides are to form on true bearing from the Guide preserved/resumed/true bearings and distances are to be ships are to form on true bearings from their guides take station on true bearing from the Guide at standard distance	FORM G TA11 FORM	7-4 4-6 33-2 4-4 5-2
TURN (ED) (ING) course for flight operations, turn to the	TURN A PORT STBD (Art. 600) TA38 H SPEED NA14 CORPEN S (Art. 601)	6-3 6-3 2-13 2-13 6-1 33-5 8-5 27-2 7-8 6-2 2-10 6-2
stop the turn and steady on course indicated	MW93 TURN TURN	7-4 7-4 26-18 6-2 6-3
turning speed		8-6 6-2
TYPE FORMATION, form	FORM N	4-7
TYPE ORGANIZATION assume type organization		7-2 7-2
		U
ULTRA-HIGH FREQUENCY exercise independently, remain within UHF range		21-2 33-8

Index-101
NATO-UNCLASSIFIED

U

	Signal	Page
UNABLE TO (governing group) arrive in position at prescribed time carry out operations kedge off keep station or carry out movements directed operate aircraft operate sonar effectively use ASW weapons	TA68 TA111 ED9 B STATION AV30 AS57	15-1 33-7 33-11 18-2 5-7 14-5 13-10
UNASSIGNED STATION NUMBERS	T STATION	5-8
UNDER ME, submarine is (ASW ACTION)	1X	13-22
UNDERWATER communications with submarine (ASW ACTION)	EMERG K AS6	13-20 3-3 13-2 30-3
UNDERWATER TELEPHONE establish communications by underwater telephone	TA73 AS55 EW46	16-2 33-8 13-10 20-5 16-2
UNDERWAY delay getting underway	RE48 ED49	18-5 30-6 18-6 30-6
UNIDENTIFIED aircraft detected or sighted bearing	EMERG E	3-2 3-2 33-4
UNIFORM	AD29	11-4
UNIT able to continue on mission. adjust station to admit unit	SCREEN J STATION I TA52 CO14 CO15 SU3	30-2 9-4 5-3 33-6 17-3 17-3 32-1 33-4

MTP 1(D), Vol. II

U

		•
	Signal	Page
clear unit	TA94 CO3	33-8 33-10 17-1 32-2 33-7
conform to general movements of unit	TA70 TA23 RE9 NB2 2W TA48 2V TA14 RE18 TA98 TA99 CO6 TA26	33-7 33-3 30-2 28-1 32-12 33-5 32-12 33-2 30-3 33-10 17-2 33-3
friendly unit sunk	RE14 NA19 G FORM	30-3 27-3 4-9
identity of unit	(Art. 113) TA86 TA100 10 TA100 TA24 TA101 TA128 TA103 NA22 TA18 RE42 NA31 TA78	1-20 33-12 1-8 33-8 33-10 13-21 33-10 33-3 33-10 27-3 33-3 30-6 27-5 33-8
responsible for surfacing submarine	CO14	13-12 17-3 17-3
station of unit	A STATION	5-7 5-7 17-2 33-7

U

	Signal	Page
take station from unit on circle (ASW ACTION)	B STATION CO1	13-22 5-7 17-1 33-3
UNIVERSAL TRANSVERSE MERCATOR for grid position	NA20 NA28	27-3 27-4
UNKNOWN, identity of unit is	TA117	33-12
UNLOADING at beach, commence	AM2	12-1
UNMASK WEAPON, maneuvering to	SU9	32-2
UNMOOR	ED14	18-3
UNRELIABLE, equipment is	RE36	30-5
URGENT ATTACK	AS1 TA2	13-1 33-1
V		
VAN, take station in	STATION C	5-3
VARIABLE DEPTH SONAR act independently to launch/recover VDS condition of VDS equipment energize/de-energize VDS transducer lower/recover VDS transducer submarine safety, VDS cable length for transmit on VDS transducer at depth	AS48 AS55 AS49 AS66	33-9 13-9 13-10 13-9 13-11
VECTOR AIRCRAFT ATTACK	AS1	13-1
VEER chain	MW40	18-3 26-12 21-2
VEHICLE, send	AD5	11-2
VERTICAL REPLENISHMENT (See HELICOPTER, REPLENISH)		
VESSEL is cooperating/not cooperating/opposing/obstructing	HA5	24-1

Index-104
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

		V
	Signal	Page
VERY HIGH FREQUENCY establish communications by VHF	EX4 TA73 IN3	16-2 21-2 33-8 24-1 16-2
VIOLATOR contact is potential violator vessel		24-1 24-1
VISIBILITY	ME8	25-1 25-1 33-16
VISUAL call sign, sound your visual . communication duty ship . contact, aircraft holds visual . contact, I am investigating unclassified visual . contact, I have lost visual (SURFACE ACTION) . contact, unit holds visual (SURFACE ACTION) . contact with enemy or unit, I have visual . no visual signaling except in emergency or in response to OTC . recognition, use visual means of . relay ship, act as visual . repeat all visual signals by radio . restrictions/no restrictions on visual signaling . signaling range, exercise independently; remain within visual . signaling range, keep within visual . watch not being kept . watch, maintain/secure visual VOICE MODULATED LIGHT establish communications by VML . use VML method . use VML method .	Flag Y AS34 EMERG Q 2H 2K TA23 CM39 TA118 CM26 CM27 CM39 EX4 TA73 Flag N CM3	16-6 2-8 13-6 3-4 32-10 32-11 33-3 16-6 33-12 16-5 16-5 16-6 21-2 33-8 2-5 16-1
		W
WAKE, keep in/just clear of	TA100	33-10
WARNING fire a warning shot across contact's bow	CM23 CM21 Flag L ME6	32-2 16-4 16-4 2-5 25-1
threat warning	□N34	19-5

Index-105
NATO-UNCLASSIFIED

W

	Signal	Page
WATCH close down radio watch maintain radio watch maintain/secure visual watch set anchor watch set ESM watch set mine watch set sonar/listening watch visual watch not being kept	CM7 CM3 ED4 EW31 MW5 AS56	16-1 16-2 16-1 18-2 20-4 26-1 13-10 2-5
barge required contaminated radiologically, water of anchorage depth of water percentage of water remaining on board at noon replenish water sighted colored water sounding indicates depth of water received/supplied required.	NB3 NA8 RE40 RS8 TA30 AM5	2-13 28-1 27-1 30-5 31-3 33-4 12-2 31-2 31-2
WEAPON (S) AAW weapons free (AAW ACTION) AAW weapons tight (AAW ACTION) alert state (readiness) ASW weapon, make attack with ASW weapon, safety range for ASW weapons free ASW weapons tight. ASW weapon to depth, set ASW weapon, unable to use attack with weapon carry out trials or tests of weapons coordination method in force fighter-launched weapons, I am engaging with harass opponent by use of weapons practices table unmask weapons, I am maneuvering to	7T RE22 AS1 AS10 AS11 AS9 AS8 AS58 TA2 EX11 AA7 AA1 HA4 Flag B	10-3 10-4 30-4 13-1 13-2 13-2 13-2 13-10 33-1 21-2 10-2 10-1 23-2 2-2 34-2 32-2
WEATHER act independently for meteorological tasks ceiling. cloud cover fog make weather report prepare for heavy weather proceed to foul weather anchorage.	ME1 ME2 ME3 ME9 RE23	33-9 25-1 25-1 25-1 25-1 30-4 33-9

MTP 1(D), Vol. II

		W
	Signal	Page
sea state	ME6 TA111 B STATION AV30 MW109 ME7 ME8 TA154 ME10	25-1 25-1 33-11 5-7 14-5 26-19 25-1 25-1 33-16 25-1 30-7
WEAVE, carry out a	TURN W	6-5
WEIGH ANCHOR	Flag U ED18	2-7 18-3
WELL DONE (governing group)	BZ	15-1
WHEEL (ING) altering course by wheeling. alter course by wheeling and resume zigzag. alter course by wheeling in direction or to course delay execution of wheel ordered by higher authority instructions. ordering a wheel. simultaneously to course.	to 148) CORPEN V CORPEN CORPEN O (Art. 700) (Art. 701)	1-34 7-8 7-3 7-8 7-1 7-3 7-4
WHEN ready (governing group)	BY BE Table W	15-1 15-1 15-1 34-18 15-1
WHISTLES, test	EX11	21-2
WHITE THREAT WARNING	EN34	19-5
WINCH SHIP, take duty as	MW73	26-16
WIND ballistic wind (See BALLISTIC WIND) effective downwind forecast	ME9 AV26 ME10 6D	28-1 25-1 14-4 25-1 30-7 22-1

Index-107
NATO-UNCLASSIFIED

MTP 1(D), Vol. II

W

	Signal	Page
time into wind		14-5 14-5
WITHDRAW (AL) (ING) amphibious unit	9C AM19 SU19	12-4 32-5 12-4 32-3 33-7
WRECKAGE investigate wreckage	TA47	33-6 33-5 33-4
Υ		
YELLOW THREAT WARNING	EN34	19-5
YES	Flag C	2-2
z		
ZERO TIME enter harbor at zero time	NA36	18-6 27-5 18-6
ZIGZAG (GING) alter course by wheeling and resume zigzag	TURN S TURN X Y TURN Z TURN	7-8 6-5 6-5 6-7 6-7 6-5
resume base course, signaled speed, and zigzag together after aircraft operations	TURN R TURN H K TURN	6-5 6-5 6-4 8-5 8-2
ZONE coordination method in force	(Art. 164h)	10-2 1-45 27-5

Index-108
NATO-UNCLASSIFIED

LIST OF EFFECTIVE PAGES

Effective Pages	Page Numbers	
Original	I thru XX	
Original	1-1 thru 1-48	
Original	2-1 thru 2-12	
Original	3-1 thru 3-6	
Original	4-1 thru 4-10	
Original	5-1 thru 5-8	
Change 1	6-1 thru 6-4	
Original	6-5 thru 6-8	
Original	7-1 thru 7-10	
Change 1	8-1 thru 8-4	
Original	8-5 thru 8-8	
Original	9-1 thru 9-4	
Change 1	9-5, 9-6	
Original	9-7, 9-8	
Original	10-1 thru 10-4	
Original	11-1 thru 11-6	
Change 1	12-1, 12-2	
Original	12-3, 12-4	
Original	13-1 thru 13-22	
Original	14-1 thru 14-8	
Change 1	15-1, 15-2	
Change 1	16-1, 16-2	
Original	16-3, 16-4	
Change 1	16-5, 16-6	
Original	17-1 thru 17-4	
Original	18-1 thru 18-6	
Original	19-1 thru 19-6	
Original	20-1 thru 20-6	
Original	21-1, 21-2	
Original	22-1 thru 22-4	
Original	23-1 thru 23-4	
Original	24-1, 24-2	
Original	25-1, 25-2 26-1 thru 26-4	
Original Changa 1	26-1 thru 26-4 26-5 thru 26-12	
Change 1	26-3 thru 26-12 26-13 thru 26-30	
Original Original	20-13 thru 20-30 27-1 thru 27-6	
Original	28-1, 28-2	
Original	29-1, 29-2	
Change 1	30-1 thru 30-6	
Original	30-7 thru 30-10	
Original	31-1, 31-2	
Change 1	31-3, 31-2 31-3 thru 31-6	
Original	31-7, 31-8	
0115mm		

Effective Pages	Page Numbers
Original Change 1 Original Original Change 1 Original Original Original Original Original	32-1 thru 32-24 32-25 thru 32-28 33-1 thru 33-16 34-1 thru 34-6 34-7, 34-8 34-9 thru 34-22 35-1, 35-2 Index-1 thru Index-108
Change 1	LEP-1, LEP-2

NUMERAL PENNANTS

SPECIAL FLAGS AND PENNANTS

PENNANT and NAME	Spoken	Written	
1	PENNANT ONE	p1	
2	PENNANT TWO	p2	
3	PENNANT THREE	р3	
4	PENNANT FOUR	p4	
5	PENNANT FIVE	p5	E
6	PENNANT SIX	p6	
7	PENNANT SEVEN	р7	F
8	PENNANT EIGHT	p8	
9	PENNANT NINE	p9	
Ø	PENNANT ZONE	pØ	
TACKLINE	TACK	_	<u>:</u>

PENNANT or FLAG	Spoken	Written	PENNANT or FLAG	Spoken	Written
CODE or ANSWER	CODE or ANSWER	CODE or ANS	PREPARATIVE	PREP	PREP
CORPEN	CORPEN	CORPEN	PORT	PORT	PORT
DESIG- NATION	DESIG	DESIG	SCREEN	SCREEN	SCREEN
DIVISION	DIV	DIV	SPEED	SPEED	SPEED
EMERGENCY	EMERG- ENCY	EMERG	SQUADRON	SQUAD	SQUAD
FLOTILLA	FLOT	FLOT	STARBOARD	STAR- BOARD	STBD
FORMATION	FORMA- TION	FORM	STATION	STATION	STATION
INTER- ROGATIVE	INTER- ROGATIVE	INT	SUBDIVISION	SUBDIV	SUBDIV
NEGATIVE	NEGAT	NEGAT	TURN	TURN	TURN
	FIRST	1st.		THIRD	3rd.

FIRST	FIRST SUB	1st.	THIRD SUBSTITUTE	THIRD SUB	3rd.
SECOND SUBSTITUTE	SECOND SUB	2nd.	FOURTH SUBSTITUTE	FOURTH SUB	4th.

MTP 1(D), VOLUME II

NATO-UNCLASSIFIED